The CHEMIST AND DRUGGIST

RETAILER — WHOLESALER — MANUFACTURER
AUGUST 26, 1950



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for RETAILER — WHOLESALER — MANUFACTURER
AUGUST 26, 1950

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NEWS OF THE WEEK

Gey Industry Duty Exemptions.—The asury has made an Order (S.I., 1950, 1389) exempting disodium dihydrogen ophosphate, heptoic acid, pyrocatechol succinonitrile from Key Industry Duty to December 31.

ensions for Health Service Workers. Jurrent superannuation benefits for kers engaged in the National Health vice are outlined in a revised booklet aperannuation Scheme for those ened in the National Health Service—An planation," which is being issued free Health Service employers to new ents. Copies are on sale at H.M. tionery Office, price threepence each.

Chemical Writers for Newspapers.—At request of the Chemical Council, the /al Institute of Chemistry has drawn up anel of chemists who will be prepared write articles on particular aspects of mistry for the lay Press. Subjects on ch their services will be available inde the science of chemistry, and chemy in relation to agriculture, foods and

nutrition, medicine, and the law. No person with pharmaceutical qualifications is included in the panel.

U.S. Warning About a Proprietary.—
The United States Food and Drug Administration has issued a warning that Oxylin tablets (distributed by Drexel Laboratories, Upper Darby, Pennsylvania) contained dangerous amounts of boric acid on about May 1, 1950. The distributor recalled the product where destinations of shipments were known, but it is understood that inquiries had been received from Britain, and the warning is here reproduced in case any of the tablets were in fact imported into this country.

Diagnosis of Occupational Diseases.—Certain occupational diseases are "prescribed" by the Minister of National Insurance as qualifying for benefit. Their accurate diagnosis therefore assumes a special importance. A booklet giving guidance on the subject to medical men has been issued by the Ministry. It comprises fifty pages and covers poisoning by

eighteen metals, compounds or groups of compounds; anthrax; glamders; ulceration of various kinds; carcinomas, etc. Copies of the booklet may be obtained from H.M. Stationery Office, Kingsway, London, W.C.2, price 18. 6d. each.

Ph.C. Examination Results.—The following candidates passed the Pharmaceutical Chemist qualifying examination held in Scotland in July:—G. W. Allan, Pamela W. Ballinger, D. R. Clark, J. Davidson, D. A. Dinwoodie, G. Elder, H. Hall, P. J. Hanger, J. H. Henderson, Elizabeth R. Hickling, D. G. Higgins, D. Hill, P. Hill, M. Horsley, P. H. B. Ingle, W. Jordison, T. Y. A. Khanbhai, R. E. Lees, J. M. Lynch, W. Pringle, K. Ripley, Millie Smith, P. L. A. Smith, A. Tallentire, A. G. Turnbull, Myra Walker, Dorothy Wood, P. M. Worling.

Long-service Awards.—At a ceremony in London recently, a number of employees who had served with Spicers, Ltd., paper makers, London, for more than forty years were presented with cheques by Mr. Lancelot Spicer (chairman) in appreciation of their service. Among them were Miss Sarah Fitzgerald (forty-seven years' service), forewoman in the "wonder room," Messrs. Garland (forty years' service), foreman for thirty years in the envelope cutting room, and A. Cranfield (forty-three years' service) all of whom are retiring, and Miss James and Mr. W. Tyler (nearly fifty years' service each).

Move for Arbitration on Salaries.—An application made by the trade union side of the National Joint Industrial Council for Retail Pharmacy for a new Joint Industrial Council agreement to cover retail pharmacy was discussed at a recent meeting of the Council. The employers' side declined to negotiate, and the trade union side has taken the view that "having regard to all the circumstances and in particular to the fair wages clause which is incorporated in the chemists' contract for the National Health Service, it is essential that new terms and conditions appropriate to present-day circumstances should be laid down by the Council," and has reported the difference to the Minister of Labour and National Service with a view to the matter being referred to arbitration for settlement.

Export Licensing Changes.—Changes in export licensing control are made by the Board of Trade Order (Export of Goods (Control) (Amendment No. 3) Order,

1950), effective from September 1. A the goods which will not require e licences are essential oils:—Bois de linaloe peppermint (including deme lised), petitgrain (Paraguay), spearmin wintergreen. Other oils not requ licences from that date include coal ta cocoa butter, fish liver, sperm and ess oils (if not mentioned above), and certain other vegetable oils and minised oils. Mixtures wholly or n of oils, fats, etc., are also free but they are described as insecticides, cides or medicinal preparations. controls are tightened over a ran chemicals specified in the Third Sch of the Control of Goods Consolic Order, 1949 (as amended). A few have been added to the list of goods require licences for export to any co These additions, specified in the schedule of the Order, include the f ing:-Cocillana bark, damiana euonymus, sassafras bark, serpentari

N.H.S. Whitley Council Decision The General Council of the Councils for the Health Services reached agreement on the following ters affecting the condition of serv staff in the National Health Se Special leave with pay; leave for a ance at Court as a witness; mat leave to part-time officers; and leav national servicemen who elect to jo territorial army as volunteers. The of the agreements is laid out in G Council Circulars Nos. 19-22. Agre has also been reached on the mac for settling differences with individua ployees over conditions of service than matters concerning dismissal c disciplinary action. The procedure, is set out in General Council Circula 18 and comes into operation not late October 1, provides for following r, An appeal may be made by the ployee to his employing authority; appeal from a decision of the emp authority, by the employee's reco professional organisation or trade to a Regional Appeals Committee; the Regional Appeals Committee fa reach a decision, the appeal may be red by either party (staff organisat: employing authority) to the appro-Whitley Council; and 4, If the W Council fails to reach a decision, party to the dispute may take the priate steps to have the matter re to arbitration.

LOCAL NEWS

iddlesex Smash-and-Grab Raid.—The low of Mr. A. W. Hall, chemist, 39 a Street, Pinner, Middlesex, was shed during the night recently by a f who stole a camera valued at £25.

hemists' Cricket.—Portsmouth chemhave won the Ferryman cup, a trophy h is played for annually in a series of ket matches between pharmacists from rnemouth, Southampton and Portsth.

nsecticide to Combat Poliomyelitis. louses in Cranwell, Lincs, where there been a recent death from poliomyelitis, a treated recently with an insecticide ture of DDT and pyrethrum as a meato kill insects that may be carriers of disease virus.

dinburgh Pharmaceutical Committee. The newly-elected officers of the Edingh Local Pharmaceutical Committee Mr. J. C. Sommerville (Chairman); F. Hepburn (Vice-chairman); and John B. Grosset, 142 Marchmont d, Edinburgh, 9 (Secretary). The Comee's representatives to the Pharmaceude General Council (Scotland) are 1818. J. C. Sommerville, F. Hepburn and McKinlay.

North Staffs Visit.—Members of the ht Staffordshire Branch of the Phareutical Society paid a visit on August to the Wellcome Chemical Works, Darttent. The party travelled from the con-Trent to London by rail, and pleted their journey by coach. On

wal at Dartford
were entered to lunch, and
ne afternoon were
were the chemical
pharmaceutical
unfacturing proes in operation at
works. After tea
ote of thanks to
P. A. Smith,
ks director, and
staff, was proed by Mr. C. E.
ner (chairman
he Branch),

bers of the North
s Branch photohed with executives
Burroughs Wellcome
o at Dartford.

Scottish Chemists' Golf.—At Edinburgh Chemists' Golf Club's competition at Dalmahoy recently for 4711 prizes, winners were: Messrs, R. H. Gilliland (5), 86, and H. F. Johnstone (13), 88. Club Prizes, First section: I. Mr. J. B. McCaig (scr.), 85; 2 (a tie), Messrs. J. D. Finlayson (scr.) and R. F. Muir (6), 88, second section: I, Mr. John Liddell (16), 89; 2, Mr. M. Meehan (18), 93; 3, Mr. A. N. Fleming (16), 94.

Health Service in Warwicks .- In the annual report of the Warwicks Pharmaceutical Committee for the year ended June 30, the Committee express regret that delay in payments and the arrears of work at the Pricing Office have not improved with the result that the interval between dispensing and pricing of prescriptions continues to increase. The expected improvement that would result by separation at the 5s, level had not materialised. Rota schemes continued to work well with a few exceptions, where, despite representations, a few individual pharmacists disregarded the maintenance of closing hours. The Committee had objected to the testing scheme on the grounds of unnecessary expense and the reflection on the professional integrity of the pharmacist. They suggested that testing should only arise when a complaint was received from a patient or a doctor.

Opium Theft Charges. — Charged in Edinburgh on August 10 with stealing 99 lb. of raw opium from J. F. Macfarlan & Co., Edinburgh, John Banks Steven, Edinburgh, and James Cairns, Wapping, London, were remanded in custody.



OVERSEAS NEWS

Jugo-Slavia To Make Penicillin.—Tests of penicillin produced in Jugo-Slavia are reported to have been satisfactory and large-scale production is to commence.

Hungarian Pharmacies Nationalised.— Twelve hundred more Hungarian pharmacies were nationalised by decree recently, bringing all pharmacies in the country under State control.

Dominican Republic Produces Alcohol.

—The production of absolute alcohol from molasses has commenced at a new plant at Ciudad Trujillo, Dominican Republic. The plant is reported to have a production of 7,200 gallons a day.

Poisons Changes in British Columbia.—Recent changes in the schedules to the Pharmacy Act of British Columbia include the transfer of the antihistamine group of drugs from Part I of Schedule A (sale by prescription only) to Part III of the same schedule (over-the-counter sale by pharmacists). Additions to Part I of Schedule A include aureomycin, d-desoxyephedrine, Methedrine, tetraethylthiuram disulphide, thiouracil and urethane.

Indian Citrate Industry.—The Government of India has accepted the Tariff Board's recommendations for the protection of the citrate industry. The Board held that iron and ammonium citrate, potassium citrate and sodium citrate did not require protective duty, but recommended that the existing revenue duty (30 per cent. ad valorem) (preferential) on calcium lactate should be converted into a protective duty at the same rate for three years.

Pakistan Successes Against Malaria .-The leader (Dr. G. Gramiccia, Italy) of the World Health Organisation's malaria control team, that has been working in the Mymensingh district of East Bengal, Pakistan, reports that not a single case of new infection has been detected in the area which has been covered for one year by spraying operations. A reduction in the incidence of enlarged spleen from 74.5 per cent. to 21.2 per cent. of the child population of the area has been noted and in the incidence of malaria parasites in their blood from 22.0 per cent. in May 1949 to 1.3 per cent. in May 1950. In the surrounding, unsprayed, areas the percentages of enlarged spleen and malaria parasites in the blood of children tested have increased and

numerous new cases of malaria have b reported. For the year 1950-51 the to has undertaken to protect a wider a including about 250,000 people living more than 40,000 houses. At the sa time a survey of kala-azar is to be car out, over 5,000 children already hav been tested and more than 10 per co of them found infected with this disease

German Pharmaceutical Production Output of pharmaceutical products drugs, which shared with dyestuffs leading position in Germany's pre-war ports, is currently equal to about 150 cent, of pre-war internal consumption. the first quarter of 1950 exports were a rate of DM 70,000,000-about half highest pre-war level. On the other ha imports, which in pre-war days were ne gible, rose to DM 17,400,000 in 10 principally for penicillin, insulin, natural drugs. The monthly production penicillin from the plant of Farbwe Hoechst, Frankfurt, is estimated 400,000 million units, and is sufficient supply the entire demand of West G'ermany.

Dispensary Ideas from Alberta.—In address on "Dispensing Aids" recently director of the pharmacy school, Univ sity of Alberta, gave the following "wi kles":-A rubber pad, such as a s' tread, provides an effective non-slip b on which to place a mortar or ois.tm slab in use; a label moistener can be m by cutting two slits about 1 in. long the metal top of an 8-oz. jar, and lac through them a lamp-wick, the ends which dangle in water in the jar; crochet hook is preferable to tweezers withdrawing the cotton wool used as pa ing in small bottles of tablets; the bla end of a broken spatula can be sharper to make an excellent scraper for remov labels from bottles or gelatin- or plas coatings from the necks of bottles; a small empty capsules dropped into a or container provide a simple test for co plete dryness; in counting pills or tab to put every tenth one in the upturn lid of the container is a safeguard agai losing count when interrupted; as a hi shelf between two existing shelves a pi of 2 x 4 in, section timber cut to length of a shelf and placed at the r provides a solid base for small bottles; r varnish provides a suitable coating scale pans that need protection agai pitting or abrasion when chemicals weighed upon them.

TOPICAL REFLECTIONS

ric Acid in Medicine

The article "Borax and Boric Acid" . 258-59) contains a useful account of medical and scientific possibilities of se substances. This paragraph is coned to the applications of boric acid in dicine. Your contributor points out t "the therapeutic value of boric acid never been thoroughly examined by dern techniques." This is an important t. So long as pharmacologists differ out its safety as an internal remedy for range of ailments, it will be wise for scribers to order it with due precaution, at all. As an external application its racter stands somewhat higher. ent report cited on p. 258 includes the ding that, "in treatment of pyodermas," ric acid ointment, in addition to giving ults comparable with those of other itments, was the only one entirely harms to the skin. Various forms of occupanal dermatitis have, naturally, been ated with boric acid, both before and er exposure to deleterious substances. sults are reported to be favourable. The outation of the acid as an ingredient in e lotions seems to have undergone no terial change of late. Its use for the 3-operative sterilisation of surgeons' nds is commended by the author of other monograph: his conclusions may terest later experimenters. The only ggestion I can make on this point is at the particle size of the powder may be importance. The idea has no doubt curred to other observers, and has posbly been recorded somewhere.

Bulletin's Successors

One hardly knows whether to be glad or rry that "the long familiar red-backed bulletin'" of the Imperial Institute (p. 10) has been converted, by a process of sison, into two quarterly publications. Of ese, the one styled "Colonial Plant and nimal Products" will, I assume, be of ore interest in the drug and chemical dustries and in pharmacy than the one lotted to Colonial geology and mineral sources. Happily the first numbers of e new periodicals promise to maintain e high standard of their predecessor. I member the establishment of the Imerial Institute, long the home of the Bulletin" and of much else of value to be Commonwealth and Empire. When the roject was in its early stages, a few com-

mentators made fun of it; but its importance soon became manifest. In your annual Special Issue of June 26, 1937, and in the following number an attractive account was given of the activities of the scientific and technical staffs working under the direction of the Board of Governors. Any attempt to summarise those activities in a paragraph would be hopeless. It must suffice to add that the Dominions and Colonies must have been searched almost to their utmost recesses for specimens to send home for investigation and report.

Hester the Distiller

A note on John Hester of "Powles Wharfe," London is prompted by the con-cluding sentences of the article "An Early Distiller" (pp. 251-52). He and three other men named in Baker's "The newe Iewell of Health" (1576) were as truly chemists as they were distillers, a line between those two occupations in the sixteenth century being difficult if not impossible to draw. The Hester broadside referred to in the article named is in effect a catalogue without prices; it forms a valuable link in the chain of historical evidence for British chemistry and pharmacy. Hester describes himself as "practisioner in the arte of Distillation," and offers to give lessons in the art "for a reasonable stipend." His catalogue enumerates forty-nine oils, eighteen waters, forty-one salts, fifty "extractiones," forty compositiones of divers authors," and twenty-four "certaine compositions of Leonard Phirouanti." A few miscellaneous articles in the nature of side-lines follow, and the list ends with "divers other secretes not here known." The General Catalogue of the British Museum provisionally assigns this publication to the year 1585. One wonders how many of these numerous chemical products Hester kept in stock, and whether, in the event of being unable to supply some preparation promptly, he was on sufficiently good terms with his competitors to obtain what he wanted from one of them. The reference in this section a week ago to the sixteenthcentury herb market in London raises the question of how much botanical knowledge these Tudor chemists or distillers possessed. Did they invariably choose the right herbs, or were they sometimes deceived in what they gathered? Xrayser

NEW COMPANIES

Chemurgy, Ltd. (P.C.).—Registered in Edinburgh. Capital £20,000. To carry on business in the harvesting and collection of sea-weed, etc. First directors are to be appointed. R.O.: 135 Buchanan Street, Glasgow,

Hornsey Road Trading Co., Ltd. (P.C.).—Capital £100. To carry on the business of wholesale and retail chemists, druggists, opticians, etc. Louis Jemac, director. R.O.: 708 Seven Sisters Road, London, N.15.

CLARK & HOWES, LTD. (P.C.).—Capital £6,000. To acquire the business of a chemist and optician carried on by Chas. K. Reed, Gosport, Hants. Philip G. Howes, Roy E. Clark and Chas. K. Reed, directors. R.O.: 143A Forton Road, Gosport, Hants.

CERTOFIX, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers and merchants of all kinds of chemical substances, including cements, glues, mastics, resins and other adhesives. R.O.: 92 Hardy Street, Hull. The first directors are not named.

J. & W. COWARD, LTD. (P.C.)—Capital £2,000. To carry on the business of consulting, analytical, manufacturing, pharmaceutical and general chemists, etc. John E. M. Coward and W. P. Coward, directors. R.O.: 123 Wandsworth Bridge Road, London, S.W.6.

LURIE LABORATORIES, LTD. (P.C.).—Capital £500. To acquire from David Lurie of Paris, and utilise, the benefit of his inventions and secret processes relating to fireproof or fire-resisting materials, etc. David Lurie and Jindrich Ost, directors. J. H. Forester, secretary, 2 Clements Inn, London, W.C.2.

Arborn Chemical Laboratories, Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers of, agents for and dealers in chemicals, etc. Arthur B. Armitage, Albert J. Osborn, Nevill B. W. Cooper, B.Sc., and F. D. Mills, directors. R.O.: High Holborn House, 52 High Holborn, London, W.C.I.

METCALF WARING & Co., LTD. (P.C.). Capital £5,000. To acquire the business of chemical manufacturers carried on by Metcalf & Co., Miles Platting, Manchester, and to carry on the business of pitch manufacturers and blenders, cable and

mineral wax manufacturers, etc. Kath Waring, Chas. R. Metcalf, and John P directors. R.O.: Victoria Chemical Wo Clifton Street, Miles Platting, Manche

ARTHUR BEDWELL & Co. (HYGDIVISION), LTD. (P.C.).—Capital £1, To carry on the business of distribu agents and sellers of Deosan and of kinds of sterilising and detergent subsces and liquids, and of any produc Deosan, Ltd., or of Milton Antise Ltd., etc. Arthur Bedwell, John H. H and Arthur J. Bedwell, directors. Sctors: Duthie, Hart & Duthie, Plais London, E.13. R.O.: 438 Barking R London, E.13.

Company News

Albright & Wilson.—A meeting is be convened to approve an increase authorised capital. Subject to Trease consent, an issue of 2,023,164 5 per cumulative preference & is shares at each is to be offered for subscription ordinary stockholders in the ratio of preference for every two ordinary 5s. theld.

BUSINESS CHANGES

H. T. Benwell & Co., Ltd., have moved to 224 Brighton Road, Couls Surrey. (Telephone: Uplands 0294.)

CUXSON, GERRARD & Co., LTD., l appointed Mr. T. Morley-Jones their presentative in East Anglia, Herts, Mic sex, Oxon, and Bucks, from Septembe

HEALTH HAZARDS OF TUBE LAMPS

A warning against possible dangers finjudicious handling of burned-out flucent tube lamps was given recently by fessor J. A. Wood (college of pharm University of Saskatchewan, Can ("Western Druggist," 1950.18.11). The is twofold: first of inhaling dust from tube; and secondly of penetration of belium dust through lacerated skin, post caused by fragments of the broken g It is recommended that, where ther only an occasional lamp to be destroit should be placed in the sleeve or can from which the new lamp has been moved, taken out of doors, and smalby a person wearing gloves and gog The broken glass should be kept we covered with water in the disposal ceptacle,

MORE SCOTTISH PROTEST MEETINGS

EMISTS in Edinburgh, the Lothians, bles, Lanarks and Aberdeen, at a 200ng meeting in Edinburgh on August unanimously passed the following resoon: "This meeting of chemist-conctors . . . finding the conditions of serimposed on them intolerable, gives the armaceutical General Council (Scotland) hority to withdraw their services." The plution, together with mandates signed the chemists, will go forward to a meetof the Council to be held in Edinburgh August 30. The meeting was addressed Mr. F. W. Bennett (chairman of the uncil) who dealt with the recent anincement that the Secretary of State for tland had amended regulations giving nself power to alter rates of payment to ottish chemists (see C. \mathcal{C} D., August 19, 236). MR. J. C. SOMERVILLE, Edingh, said later that the members had sed their actions on the ground that they d not been fairly dealt with. "We are pared to prove that. We base them also the ground that when, after being un-

fairly treated, we took the only course open to us—legal action—we found that while the matter was sub judice and while Parliament was still in recess a statutory instrument was propounded which might have the effect of rendering further legal action futile."

Lanarkshire chemists, meeting in Hamilton recently, unanimously resolved that individual members of the profession in the county should be recommended to sign a mandate to withdraw from the Service. MR. A. ROBERTSON (chairman) said that the meeting had been called to try to stimulate 100 per cent, backing from Lanarks in signing the mandate on behalf of the Council. Aberdeen chemists also unanimously agreed at a meeting recently to sign the mandate and were told that Aberdeens and Kincardine chemists were unanimous in supporting the Council's action. At a meeting in Glasgow on August 14, Dumbartons private chemists passed a similar resolution. "Co-ops" and multiples have not yet indicated their intention.

EXECUTIVE COUNCILS ASSOCIATION

a meeting of the management commitof the Executive Councils Association ngland) held in London recently, resoluns received from Councils throughout e country were considered. Kingstonon-Hull and Isle of Wight asked for pport in protest against the decision the Minister of Health to reduce onst on prices of drugs and appliances, herwise than in accordance with an reement reached by the Pharmaceutical hitley Council. The Ministry was rerted to have replied to a communication om the Isle of Wight Executive Council ating that the Pharmaceutical Whitley ouncil was the appropriate machinery to The committee conscuss the matter. irred in that view.

At a previous meeting of the committee, r. Henry Lesser (an ex-president of the sociation) had promised to investite the legal obligations upon a nemist contractor to label all condiners used in dispensing National fealth Service prescriptions. Summing p his findings, Mr. Lesser was inclined the opinion that failure to affix a label a container (of a non-poison), though irregular" having regard to the established practice among chemists, would not sufficient to justify the local Executive

Council in taking disciplinary action. As the terms of service were set out in the statutory regulations, he thought, however, that, in the absence of express provision to that effect, a general obligation would rest on the pharmacist to label such medicines. It was resolved to support the West Hartlepool Executive Council, which had raised this matter, and to ask the Ministry of Health to amend the regulations accordingly.

The committee decided to take no action on a letter received from the Southend-on-Sea Council, which sought to include ammonium carbonate and other similar substances of known instability in the list of ingredients unsuitable for testing purposes. Bournemouth wrote that the South-western Prescription Pricing Office had rejected the claim of a pharmaceutical contractor for a travelling allowance of 6d, per mile to visit a patient for the purpose of measuring and fitting an appliance. The doctor had endorsed the prescription "please visit patient, who is unable to walk." It was resolved to support the Bournemouth Council by making representations to the Ministry that the question should be placed before the newly formed central health service subcommit-

BIRTH

IDDON.—At the Westwood Hospital, Beverley, Yorks, on August 17, Betty, wife of Noel S. Iddon, M.P.S. (a director of Selles Dispensing Chemists, Ltd.), of a daughter.

MARRIAGE

Davies—Dickson.—At St. Stephen's Church, Comely Bank, Edinburgh, on August 14, Howell Davies, B.A., B.Sc. (Econ.), Aberdare, to Jean Mackay Dickson, younger daughter of the late Mr. J. J. Dickson, M.P.S., Uphall, West Lothian.

DEATHS

DILLING.—At his country home, Coniston, Lancs, on August 19, Professor Walter



James Dilling, M.B., Ch.B. (Aberdeen) professor of pharmacology and general therapeutics, Liverpool University, and from 1938 until his retirement recently a Privy Council representative on the Council of the Pharmaceutical Society, aged sixtyfour, Educated at Robert Gordon College, Aberdeen,

Professor Dilling was a Carnegie research scholar in physiology at Aberdeen University, 1907. Holding a Carnegie research fellowship in pharmacology the following year, he acted as first assistant professor of pharmacology at Rostock University. From 1910-14 he was lecturer in pharmacology at Aberdeen University, and in the following year was Robert Pollok lecturer in materia medica and pharmacology at Glasgow University. After serving in the Royal Army Medical Corps during the 1914-18 war, he was lecturer in pharmacology and general therapeutics at Liverpool University, 1920-26, and was an examiner in materia medica, pharmacology and other subjects at a number of universities. He was Dean of the medical faculty, Liverpool University, 1923-33 and 1939-45, and was appointed professor of pharmacology, etc., in 1930. Professor Dilling was a member of the General Medical Council. He was author of a number of publications dealing chiefly with pharmacology therapeutics. Professor Dilling served many years as chairman of the edite board of the "Quarterly Journal of Pl macy and Pharmacology" (later the "Je nal of Pharmacy and Pharmacology He was a member of the pharmacolocommittee of the British Pharmacococommission, and a member of the Bri Pharmacoutical Codex and Codex Revi Committees. Always an interested friend students, he did much for the Stude Union which he served as a senior trurer. He is survived by his widow two daughters.

Hunter, —On August 17, Mr. Ja Hunter, M.P.S.I., M.P.S.N.I., Kilrea, Londonderry. Mr. Hunter qualified up the Pharmaceutical Society of Ireland 1904 and became registered with Pharmaceutical Society of Northern land in 1926. He had been in practice Kilrea for many years, and was a just of the peace for the county.

Johnson.—At the Prince of Wales I pital, London, N.15, on August 17, Francis Herbert Johnson, sales manage Fassett & Johnson, Ltd., Clerkenwell Ro London, E.C.1. He had been associa with the company for nearly twenty y and had made a wide circle of friend the trade. The funeral service was at the Church of St. Joan of Arc, H bury, London, on August 22, and burial at Highgate Cemetery, London, Among the many present were Mr. F Sullivan (a director and secretary of company), and Mr. R. P. Rutter (An Chemicals, Ltd.), and other members the trade.

Logan.—At 95 Ravenscraig Drive, C gow, on August 1, Mrs, Olive Park Sil wife of the late Mr. John Logan, M. The funeral was held at Cardonald Ce tery on August 4.

Reckless.—On August 8, Mr. Wareckless, M.P.S., 23 Cavendish St. Sheffield. Mr. Reckless qualified in 1

SUTHERLAND.—On December 2, 1 Mr. James Ferguson Sutherland, M.J of Nairobi Pharmacy, Ltd., Nair Kenya, British East Africa. Mr. Sut land qualified in 1921.

STOREY.—On August 14, Mr. I Storey, a retail manager for Reynold Branson (Retail), Ltd., Leeds. Mr. Stocollapsed in his shop and died shortly a admission to hospital.

PERSONALITIES

IR. GEORGE CAIRNS, M.P.S., Hawick, been elected president of Hawick Ro-/ Club. #

VR. J. BATE, M.P.S., addressed the tary Club of Reading, recently, on the tory of and present tendencies in tendencies in

Mr. E. J. HOLDER, Ph.C., B.Pharm., ned Duncan, Flockhart & Co., Ltd. (to



which he has just been appointed a director), in 1949 as general manager. Previously he was chairman an d managing director of Mersons (Su-Ltd., tures), company he had served since 1932. Mr. Holder qualified Ph.C. at the the College of Pharmaceutical Society in 1928, gaining the silver

dal in pharmacy. The previous year he d been awarded the C. J. Hewlett Medrial Exhibition. He remained, as a depostrator, at the College until 1932, hen he graduated B.Pharm. He has been member of the Society's Scottish Board Examiners since 1937, and is the direct of the Edinburgh Chamber of Comerce,

MR. SIDNEY ALAN BARKER, B.Sc., Ph.D., niversity of Birmingham, has been appinted Mackinnon Research Student of e Royal Society for two years from Octor 1. He will work on the enzymic synesis of polysaccharides.

Dr. J. Stanley White, Ph.C. (director the medical department, Parke, Davis Co.), is the author of a paper on Clinical Aspects of Chloromycetin" pubhed recently in the "Irish Journal of edical Science."

MR. GILBERT MAINS SHAW, M.P.S.N.I., igh Street, Carrickfergus, co. Antrim, orthern Ireland, has been appointed a stice of the peace for co. Antrim. He was former member of the Carrickfergus brough council and during the war was e local civil defence anti-gas officer.

Mr. E. C. Steenson, M.P.S.N.I., a pastresident and secretary, Londonderry Chemists' Association and captain 1950 of the City of Derry Golf Club, won the Castlerock Open Challenge cup recently in a contest over eighteen holes against a field of forty entrants.

Mr. R. S. Whitelaw, a member of the Executive of the Scottish Department of the Pharmaceutical Society, was the author of a letter published in the "Scotsman" on August 17 on the action taken by the Secretary of State for Scotland in making an Order to give himself power to impose a cut in pharmacists' payment.

MR. E. RATCLIFFE, M.P.S., Wembley, Middlesex, has been elected to the Livery of the Worshipful Company of Needlemakers. A biographical note on Mr. Ratcliffe was published in the C. & D., 1949.II.167 together with a description in the series "The Profession in Practice" of his newly equipped dispensary.

MR. DAVID RITCHIE, M.P.S., A.R.I.C., Edinburgh, was capped Doctor of Philosophy at a graduation ceremony at Edinburgh recently. The title of his thesis was "Synthesis of Pyrazoline Derivatives and an Examination of their Local Anæsthetic Activity." Dr. Ritchie is on the staff of T. & H. Smith, Ltd., Edinburgh.

MR. R. IRVING, the new chairman of the South-east Metropolitan Branch of

the Pharmaceutical Society, is sales manager of John Bell, Hills & Lu-cas, Ltd., London, S.E.26. A Scot, he was apprenticed to Mr. James Walker, Annan, Dumfriesshire, and after studying at the Tech-School of nology, Bristol, he qualified in 1938. He then gained experience as qualified assistant



with Squire & Sons, Ltd., Oxford Street, London, and subsequently managed the business of Leo Atkinson & Co., Ltd., London, S.E.4. In 1945 he joined the staff of his present company as a departmental manager. He has been a member of the South-east Metropolitan Branch of the Society for ten years, and its treasurer for four.

TRADE NOTES

Change in Tax Rate.—Parke, Davis & Co. Staines Road, Hounslow, Middlesex, state that the purchase tax rate of Caladryl has been reduced from 100 per cent. to 33\frac{1}{3} per cent.

Address for Orders.—Nurse Sykes Co., Church Street, Ashton-under-Lyne, Lancs, state that all orders for Nurse Sykes powders should be placed through the usual

wholesaler or direct.

Bonus Display Parcel.—The Oatine Co. (proprietors: Opera Omnia, Ltd.), 44 Kennington Lane, London, S.E.11, are offering a special bonus display parcel of 3 doz. packets of Surama medicated cigarettes, with show material.

Makers of a Methonium Compound.— The manufacturers of Hexathide hexamothonium iodide are Allen & Hanburys, Ltd., Bethnal Green, London, E. I, and not as stated in the "Additions to the Extended List of Poisons" (C. & D., August 19, pp. 244-46).

Change of Sizes.—Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.I., announce that, owing to the shortage of containers, the 1-oz. and 1-lb. sizes of Viacutan cream have been discontinued and 25-gm. and 200-gm. sizes introduced.

Cosmetic Prices Reduced.—From September 1 onwards the price of every Gala lip-line or lipstick is being reduced by one shilling, every refill by elevenpence, and each matching nail colour by threepence. The makers are Gala of London, Ltd., Hook Rise, Surbiton, Surrey.

Antihistamines.—A reminder is given that the additions to the Extended List of Poisons (C. & D., August 19, p. 244) included items not at present on the British market. Among them were Pyribenzamine nebuliser (Ciba Laboratories, Ltd., Horsham, Sussex). Messrs, Ciba's Antistin cream and ointment were not listed and are in fact exempt from Schedules 1 and 4.

Festival of Britain Advertising.—The sole contractors for the sale of advertising space in all Festival of Britain official publications that carry advertisements are Adprint, Ltd., Rathbone Place, London, W.I. Final press day is November 30, and intending advertisers should address their inquiries early to the company's director of advertising.

Brush Trade Directory.—A third edition of the Directory of the Brush and Allied Trades has been published by

Wheatland Journals, Ltd., 356 Kilb High Road, London, N.W.6. New feath include a guide to practical training, o prising three articles designed to assist establishing and running a brush busir A bristle price register is printed on tirpaper for easy reference. The usual stures have been augmented.

New Sulphonamide Products.—Bri Schering, Ltd., 229 Kensington High Str London, W.8, have introduced in Entero a presentation of phthalylsulphacetan for oral administration. Enterocid is iss in 0.5 gm. tablets, and contained in minium containers of twenty-five advantage claimed for it is that, w systemic absorption of the compo from the intestinal tract is negligible, concentration actually in the wall of intestine may be high.

Handkerchief Tissues in Pocket Pa —Velvet Crêpe Paper Co., Ltd., Ab Estate, Mount Pleasant, Alperton, Mid-



sex, have put on the market a spe pocket pack of their handkerchief tiss as illustrated. The pack is issued to dea in a counter display unit of one doz. tails of price and margin are given other pages in this issue.

Thiosemicarbazone Therapy. — Be Pure Drug Co., Ltd., Nottingham, h issued a new medical product—Neubrand thiacetazone—for use in the tree ment of certain types of tuberculosis. preliminary report (Ryrie, "Lanc 1950.2.286) indicates that thiacetaz therapy may also prove useful in leprotous leprosy. Neustab is supplied in bot of fifty, 250 and 1,000 25 gm. table Literature and further information may obtained from the company's medical partment, Station Street, Nottingham.

Disposable Nappies Made Practicable. n introducing their Paddi adjustable der for baby's nappies and Paddi pads



ecy disposable napkins, Robinson & Sons hesterfield), Ltd., Chesterfield, claim to ve produced an attractive and practical swer to a difficult problem. The Paddi constructed of two layers of a thin but ong and smooth white or pink plastic terial shaped to give perfect fitting at waist and legs and spot-welded instead stitched for strength. Upon the Paddi d flat is placed a Paddi pad of absornt cellulose covered with a thin layer of sorbent cotton wool. Pad and cover are en put in position on the baby, adjusted waist and legs, and secured with press ids and Nylon tapes. For extra protecin at night. Cellosene squares are availle as fillers.

Teen-agers' Beauty Book.—The second ue of "Junior Miss," the beauty book t teen-age girls published by Yardley & Co., Ltd., 33 Old Bond Street, London, W.1, has been on sale at bookstalls and booksellers since July 21. In forty quarto pages, many of them in colour, the book gives advice on care of the skin and hair, make-up, etc., together with articles of general interest, written in a "light and free" style suited to the young readers for whom it is intended.

Display Competition Prizewinners .-National prizewinners in the 1950 window display competition organised by Goya, Ltd., 161 New Bond Street, London, W.I, were: First (value £100), Mr. S. F. Nicholls, M.P.S., 135 Oakbrook Road, Nethar Green, Sheffield, Yorks. Second (£50), Strange, Ltd., 6 and 15 Market Street, Oxford. Third (£35), E. E. Dunkey, Ltd., 3 Cannon Grove, Fetcham, Leatherhead, Surrey. Regional prizewingers (First, Extractor) ners (First, £15; second, £10; third, £5) were: Region 1: Mr. A. Mills, M.P.S., 28 Boroughgate, Appleby, Westmorland; Ewart & Emerson, Main Street, Caledon, co. Tyrone; and Mr. Harry Milne, M.P.S. (W. D. Brunton & Son), I York Place, Perth, Scotland. Region 2: Dawson West Ltd., 45 The Arcade, North Street, Keighley; Norman Best, Ltd., 461 Bradford Road, Thornbury, Bradford; and Mr. Bernard P. Sizeland, M.P.S., Central Terrace, Edlington, nr. Doncaster. Region 3: Leicester Co-operative Society, Ltd., Union Street, Leicester; Vanessa Beauty Salon, 8B Widemarsh Street, Hereford; Mr. W. H. Bunster, M.P.S., 50 Church Street, Gainsborough, Lincs. Region 4: Maldon Cooperative Society, Ltd., 100 High Street, Maldon; Miss E. P. Jarvis, M.P.S., 54 Joel Street, Northwood Hills, Middlesex; Allen & Neale, Ltd.,

High Street, King's Lynn, Norfolk. Region 5: Dartford Industrial Co-operative Society, Ltd., 44 Spital Street, Dartford, Kent; Mr. J. C. Bloomfield, M.P.S., 185 Fratton Road, Fratton, Portsand Mr. mouth; H. Meynell, M.P.S., 24 High Street, Bexley, Kent. The display reproduced is that of the first national prizewinner.



NOMENCLATURE OF THE ANTIHISTAMINES

THE inclusion of "anti-histamine substances" in the Poisons List makes their nomenclature a matter of especial importance, for it determines what (proprietary) preparations are to be subjected to Fourth Schedule (Rx only) restrictions. In this respect the names in the Poisons List Order, 1950 (S.I., 1950, No. 1213) are singularly unhelpful. Either the term adopted is one that has not been descriptive of the substance hitherto, or else it covers a group of poisons having names almost unknown in Great Britain. Some potent

"Substances being tetra-substituted N rivatives of ethylenediamine or propyle diamine" provides a convenient start point for classification on chemical non-proprietary nomenclature.

Fig. 1 shows the basic dimethyl-et lenediamine nucleus with radicles R' (i) R' (ii) completing this "N" tetra-s stituted group of antihistaminic poise Figs. 2 to 8 give the structural form of the radicles which, in positions and (ii), characterise the different der tives below:-

minics are omitted, presumably owing to terminological problems, which are made more difficult by an entire absence of B.P. or B.P.C. monographs on these therapeutic principles. Finally the "accepted scientific names" are both cumbersome and confusing.

Nevertheless there are "non-proprietary" names in existence which will undoubtedly become adopted as "statutory names" in poisons law as has already occured in the case of three antihistamines, namely antazoline, diphenhydramine and phenindamine. The group designation Compounds Related to Basic Formula

Antergan (i) Phenyl; (ii) Benzyl. N:N-dimethyl-[N'-phenyl]-[N'-benzyl]-ethyle

Tripelennamine (i) Pyridyl; (ii) Benzyl.

N: N-dimethyl-[N'-pyridyl]-[N'-benzyl]-ethyl

(Trade name: "Pyribenzamine.")

Mepyramine (i) Pyridyl; (ii) Methoxybenzyl.

N: N-dimethyl-[N'-pyridyl]-[N'-methoxybenzyl.

ethylene-diamine. (i) (lio-(Trade name: G.B., "Anthisan"; "Neo-Angen." U.S., "Antamine"; "Kryptii " Kryptii

Enstamine (i) Phenyl; (ii) Thenyl.

N: N-dimethyl-[N'-phenyl]-[N'-thenyl]- ethyle diamine.

(Trade name: U.S., "Diatrin.")

$$CH$$
 CH CH CH CH CH_2 CH_2 CH_3 CH CH CH CH CH CH CH

Fig. 10: Diphenhydramine Di-phenylmethyl-\(\beta\)-dimethyl-aminoethyl-ether

Fig. 11: Phenindamine [2-methyl]-[9-phenyl]-1:2:3:4-tetrahydropyridindine.

Thonzylamine (i) Pyrimidyl; (ii) Methoxybenzyl. N: N - dimethyl - [N' - (2-pyrimidyl)]-[N' - (p-methoxybenzyl)]-ethylene-diamine.

xybenzyij-etnyiene-mainie.
(Trade names: U.S., "Anahist"; "Neohetramine"; "Resistab.")
Chlorothen (i) Pyridyl; (ii) Chlorothenyl.
N:N-dimethyl-[N'-(2-pyridyl)]-[N'-(5-chloro-2thenyl)]-ethylene-diamine.

(Trade names: U.S., "Caudren"; "Tagathen.")
"Approved" names in the Poisons List

Antazoline (Trade name: "Antistin.")
(2-(N-phenyl)-(N-benzylamino)-methyl-imidazo-

Diphenhydramine (Trade name: "Benadryl.")

(Diphenylmethyl-B-dimethyl-aminoethyl Phenindamine (Trade name: "Thephorin.") (2-methyl-9-phenyl-1:2:3:4-tetrahydropyridin-

dine; or 2-methyl-9-phenyl-1:2:3:4-azofluorene). Figs. 9, 10 and 11 show that the three antihistaminics have little in common in chemical constitution. The introduction of a chemotherapeutic grouping (as im-

Fig. 13: Chlorcyclizine dl-l-(p-chlorobenzhydryl)-4-methyl-piperazine

Fig. 12: Promethazine N-(2-dimethylamino-n-propyl)-phenothiazine

nylpyramine (Methapyrilene) (i) Pyridyl; (ii) henyl. N - dimethyl-[N-(2-pyridyl)]-[N'-(2-thenyl)-

ethylene-diamine.
Trade names: U.S., "Dasikon"; "Histadyl";
"Nuclon"; "Pentryl"; "Thenylene.")

not apply in the case of imidazoline compounds. Antistin (antihistaminic), Priscol (vaso-dilator) and Privine (vaso-constrictor) have very different actions. by approved name has obvious advantages. The disadvantages include the need for coining a name for each poison.

One antihistaminic substance designated by chemical name is:

(2-Di-n-butylamonimethyl-4:5:6-trioxyphthalide.) (Trade name: "Anthallan.")

Antihistamines not on Poisons List

The following antihistamines on British market are not as yet listed:— Chlorcylizine ("Di-paralene" and "Histantin.") (dl-l-(p-chlorobenzhydryl)-4-methyl-piperazine).
Promethazine (trade name: "Phanergan.")

(N-(2-dimethylamino-n-propyl)-phenothiazine.) Figs. 12 and 13 show the structure of chlorcyclizine and promethazine. These cannot be regarded as "ethylene-diamine" derivatives and hence are not included.

ANTIHISTAMINES REJECTED AS COLD CURES

REPORTS of controlled trials conducted in Britain on the use of antihistamines by a committee of the Medical Research Council and independently by Lorriman (medical adviser to Ciba Laboratories, Ltd., Horsham) are published in the "British Medical Journal," August 19 (pp. 425-30). The reports show that the compounds tested failed to have any noticeable effect on the course of the common cold, and that two of them tested as prophylactics were equally valueless for that purpose. The Medical Research Council's trials were undertaken at the request of the Ministry of Health in view of the importance the favourable findings, reported elsewhere, would have if confirmed.

Two Types of Test

The M.R.C. tests were of two kinds (1) tests conducted on volunteers at the Common Cold Research Unit, Harvard Hospital, Salisbury, using the two powerful antihistamines promethazine hydrochloride (Phenergan) and chlorocyclizine (Histantin); and (2) large-scale trials of the weaker antihistamine thonzylamine (known in America as Neo-hetramin and Anahist) in treating colds occurring naturally among volunteers from the general adult population (in the Civil Service, factories, universities, H.M. Forces, etc.).

In the Harvard Hospital tests the object

was to see whether antihistamines given before and for a few days after nasal instillation of common cold washings would prevent the development of a cold. volunteers were isolated in pairs throughout the trial, half of the subjects receiving the drug under test, the other half receiving dummies indistinguishable from it and containing 4-gr. of phenobarbitone. mild sedative effect of the phenobarbitone was considered to make it acceptable as a control. The two members of each pair of volunteers were given the same substance, and the pairs were chosen at random. Two strains of the common cold virus were used. Against neither was any evidence of prevention of the common cold by antihistamine drugs obtained. The committee described the result of the two series of tests as "clear-cut," and there seemed no reason for repeating the tests with other drugs of a similar kind.

In the second type of trial the committee planned to compare the experience of treated individuals with that of a simi-

lar untreated group among the gene public. The scheme was on similar lin to that adopted in investigating the value of Patulin for the same purpose during 1939-45 war. Thonzylamine was the dr chosen, as it was reported to have a l toxicity and as it had been claimed workers elsewhere to be highly effect against the common cold. Volunteers the trial had to be over fifteen years age and to have good evidence of t presence of a common cold. Volu teers whose conditions included chrocatarrh, acute tonsillitis and suspect influenza, etc., or who seemed inquiry to have taken antihistamines wi in the previous week, and volunteers w present hay-fever of allergic rhinitis, we excluded. To ensure that no bias cou enter into the assessment of results, nu bered record sheets, each with a number envelope of tablets, were supplied centra from the Medical Research Council. T M.R.C. committee alone knew the col position of the tablets, which were iden cal in appearance and consisted of ty types: Tablets containing 50 mgm, of t antihistamine, and control tablets co taining a trace of quinine sulphate in lactose base. Patients were instructed report progress at the end of twenty-fo hours, forty-eight hours, and a week,

"Side-Effects" Noted

The total of volunteers was 1,15
725 taking the drug and an equal numb
the control tablets. For the who
test, the results showed that, in the dosa
employed, thonzylamine had "little if at
value in the treatment of the commo
cold." Side-effects attributed to the treatment were reported in 20.9 per cent.
the subjects receiving the drug and
19.2 per cent. of those receiving the co
trol. The authors considered it unlike
that the large number of side-effects attributed to the alternative treatment coube due to the small dose of quinine give
in the tablets: the side-effects describewere probably symptoms of the cold itsel

Lorriman and Martin carried out similar test in eight factories and or public school, using o.1-gm. Antistitablets and dummy tablets of identicappearance. The trial failed to show that the drug had any effect on the cold, an most of the side-effects described coul have been symptoms of the cold.

CHEMICAL ANALYSIS OLD AND NEW

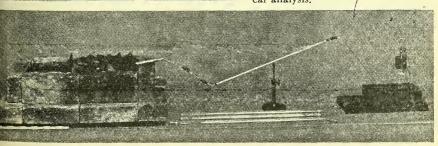
the Science Museum, South Kensing-London, a small exhibition, devoted to development of chemical analysis, has n arranged by the Keeper of Chemistry, co-operation with the Royal Institute Chemistry. The aim of the exhibition o show how chemical discoveries have to new methods of analysis, and in at ways other branches of science have n applied to chemical analysis.

One of the largest exhibits is a restructed model of the combustion paratus devised by Berzelius in 1814 for determining the proportion of carbon and hydrogen in organic compounds (see illustration at foot of page). The hydrogen, as water, was absorbed in a weighed inclined absorption tube, and the carbon as carbon dioxide was absorbed in a vessel containing a known quantity of alkali. After other workers had developed the apparatus into something more elaborate, Pregl devised, in 1912, a smaller, more compact and more accurate apparatus (exhibited) which is still used today. In another showcase, a comparison is made between old and

new volumetric apparatus. For the first time in the Museum a burette devised by Gay-Lussac, the inventor of volumetric apparatus, is shown (see illustration, left). For use, the top of the burette was partially closed with the finger, and the apparatus tilted. A new microscope lent by W. Watson & Sons, Ltd., is compared with the microscope (see illustration extreme left) used by Louis Pasteur when he was called to England to investigate brewing troubles at the brewery of Whitbread & Co., Ltd. An early nineteenth century balance made by W. & S. Iones, the beam of which consists of truncated brass cones joined at the base, and the balance which won for Ramsden in 1789 the Royal Society prize for the most delicate balance are also shown. The application of other sciences to chemical analysis is indicated in the displays illustrating chromatography, polaro-graphy (a polarograph lent by (Industrial Instruments), Tinslev Ltd., absorptiometry (an instrument lent by Hilger & Watts, Ltd.), microbiological assay and radioactivity measurement. A case is devoted to modern developments/in microchemical analysis.









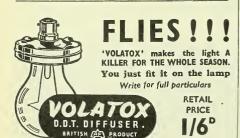
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L. CLIV AUGUST 26, 1950 No. 3679

The Antihistamine Muddle

predicted in our issue of August 12 213), the inclusion of "antihistamine istances" in the Poisons List has raised estions as to which proprietary preparans are in fact subject to the Fourth nedule to the Poisons Rules. In this mection it is necessary to emphasise it any interpretation of the application the Poisons List Order, 1950, and of Poisons Rules, 1950, must be based on the strict letter of the law, as was case with the additions to the Extendiction of Poisons published in last week's the (pp. 244-46).

The article on "The Nomenclature of tihistamines" (p. 276) discloses the mes available for statutory purposes and cir "trade" equivalents. So far as seven itvatives are concerned, the extension to tem of "substances being tetra-substituted N derivatives of ethylenediamine" is the clear and devoid of any possibility dispute. These comply with the straightain arrangement (see Fig. 1, p. 276) in ich four substitutent radicals are ached to nitrogen atoms separated by or three CH₂ groups (for antihistamics derived from ethylenediamine and opylenediamine respectively).

In the cases of promezathine and chlorizine, the viewpoint of certain protagots that those compounds are covered by e "ethylene-diamine" definition is a utter of contention. Any suggestion, for ample, that n-propyl-N-(2-diamethylino)-phenothiazine is a Fourth Schedule ison disregards two all-important factors, the first place, the above chemical name

has been in use for some time past as the "accepted scientific name" for the antihistaminic substance known more recently as promezathine, and the labelling requirements of the Poisons Rules are an obstacle to change in existing terminology. Secondly, any rearrangement of the molecule to give a similitude of an ethylene-diamine derivative distorts the principles of chemical nomenclature. Thus the first part, if

arranged as
$$CH_3$$
 N -- $CH(CH_3)$ - CH_2 - N

involves the single phenothiazine group in the triple duty of providing the second nitrogen and supplying two N':N' substituents. Chlorcyclizine (Fig. 13) has no evident affinity with the ethylene diamine derivatives, being a methyl-piperazine coupled with chlorbenzhydryl and via the latter more akin to diphenhydramine.

It is probable that after September I pharmacists will decide to supply promezathine and chlorcyclizine only on prescription, but the proper way to provide the necessary basis in poisons legislation is to add those two names to the Poisons List and First and Fourth Schedules,

External or Internal?

Difficulty has also arisen as to the extent to which antihistaminic preparations "intended for external application only" are exempt. Whilst the requirement is quite clear in its application to creams and ointments, it has been represented to us that the exemption is intended to include liquid preparations such as nasal drops and nasal sprays. Such an interpretation is, in our view, contrary to both common sense and Poison Rule 21 (which defines a "liquid medicine for external application" in terms of embrocation, liniment, lotion or liquid antiseptic). The importance of this ruling lies in the fact that "For external use only" is the only labelling condition extended to dispensed poisons. Presumably "nasal drops" are in the same category as mouth washes, eye drops, etc. (Poison Rule 2), which, in poisons law, are neither internal nor external preparations. On that basis antihistaminic sprays escape from the necessity of labelling for "external use" but in consequence they

cannot be designated as "preparations intended for external application." any difficulty in interpretation is readily solved by including nasal sprays in the Third Schedule, as has been done with certain phenolic preparations. In conclusion, we must emphasise that our endeavours are to assist the trade in complying with the undoubted provisions of poisons law as a whole and in particular to avoid distortion for controversial requirements. Our attitude is that it is the duty of legislators to remove all doubts and difficulties in complying with the onerous duties imposed upon pharmacists in supplying Fourth Schedule poisons.

An Unequivocal Result

THE controlled tests conducted by a committee of the Medical Research Council and, independently, by the medical adviser to Ciba Laboratories, Ltd., Horsham (see p. 278), have provided an unequivocal answer to the question whether antihistamines can conquer the common cold virus. While popular demand for these substances as cold cures was so great in America, where the suggestion of their use for that purpose originated, that the American Medical Association found it necessary to issue a warning about their use and a criticism of the distribution methods in that country, those in Britain responsible for the manufacture, prescribing and distribution of the compounds have been more circumspect, and may not be unduly surprised by the recently published results. Damage has been done, however, from the free access gained by the general public to those substances before poisons regulations could be framed for their protection. That is the more regrettable since, as it has now been shown, there was never a chance of a cure of the condition for which the preparations were being obtained. The pitiful story of the attempted use of antihistamines for cold cures should teach a lesson for all time about the dangers of crediting new drugs with properties that have not been proved in the light of exhaustive controlled tests. It is, nevertheless, unfortunate that the common cold virus remains triumphant. The way to its conquest continues without doubt to

be by patient research on the lines of the work being conducted at the Harvan Hospital, Salisbury.

Record Exports and Imports

AFTER making allowance for changes the price of goods arriving into this cou try the Board of Trade calculates that the volume was 6 per cent, higher in the fir six months of the year, than it was in the corresponding period of 1949. The pric of Britain's exports rose less than the pric she paid for imports. Exports increase by 13 per cent, while the level of impor rose by 15 per cent. These high-level figur have been maintained in July (a month 26 working days) when exports amount to £182.25 millions compared with £175 millions in June (25 days). Imports July were £225.2 millions (£38.3 millio more than in July 1949). With re-expor at £6.2 millions the adverse trade balan for the month was £36.8 millions (again £56.5 millions in June).

Exports in the chemicals group value at £9.3 millions are the highest on recor the previous record being £8.5 millions May. Manufactured drugs, medicines as medicinal preparations were valued £1.87 millions, being slightly lower that the record figure for June of £1.9 million Exports of proprietary medicines we valued at £411,909; quinine, £26,67 aspirin, £63,160; insulin, £24,221; per cillin, £247,219; ointments and linimen £87,316; various other medicinal prepar tions £1.01 millions. Overseas marke also received from this country disinfe tants, insecticides, weed killers and catt dips, etc., to a total value of £297,065.

Exports of perfumery and toilet piparations (excluding perfumed spiri essential oils and soap) during July, value at £307,450, showed a drop over the prvious month, but was still considerabligher than in July 1949 (£238,863). Too and denture preparations were valued £64,977 against £55,119 a year earlief and cosmetics at £110,891 (£72,888 Shipments overseas of powder bowls, corpacts and powder puffs totalled £25,7 (£9,083). Perfumed spirits, valued £44,584, though less than in June, we

siderably up on last year (£30,207) lessential oils £39,594 (£33,476) wed an increase, but toilet soap at 20,173 (£197,724) was well down.

raws in the Transatlantic Wind

observers remote enough to look dissionately at the American scene, the ensity of the campaign against the inution in the United States of any alth service in any slight degree resembg Britain's National Health Service (p. 5) tells its own story. If such campaignis called for then the spread of opinion favour of a nation-wide Governmentonsored service must have gained more ound in that stronghold of individualism in had been supposed. The very publiy called out against it, though it may ve the desired effect in the 1950 Conessional elections, can hardly fail to inease, in the long run, the Health Sere-consciousness of those to whom the blicity is directed—the 50,000 pharmats in business in the States—and through em, if the sponsors of the campaign achieve eir object, of the nation at large. Whater the defects of the National Health rvice-and the "American Druggist" ves opportune prominence to one of em—there is little doubt that it is here stay and elsewhere to be emulated.

Antimalarials in Peace and War

vitimalarial research, a field in which itish workers have played a notable part, ould be stimulated further by the reinder of the World Health Organisation's xpert Committee on Malaria (see p. 289) at despite many new advances the ideal timalarial has not been found. In view

the numerous attributes required of ich a drug, and the fact that different cographical strains of the causative orms behave differently, this may not

surprising.

Malaria attacks annually about 300 illion persons throughout the world, and the opinion of the Committee is the reatest obstacle to the development of any tropical and sub-tropical countries. teps towards the ideal combined prevenve and curative medicine on that account

alone are called for as an urgent matter. It is noteworthy that the Committee recommends that efforts should be made towards producing synthetic antimalarials, rather than towards cultivating the plant-source of quinine which would occupy land that could be used for food production, etc. The British industry should note particularly that in a number of areas antimalarial services have been handicapped by the need to buy drugs and insecticides from hard-currency areas.

Many of the synthetic antimalarials had their inception during the 1939-45 war, when the supply of quinine for the Allied Forces and populations was imperilled. The fact that British and other United Nations forces are being called upon to enter a fresh malaria-infested area, Korea, adds perhaps another stimulus to present

antimalarial work.

FIFTY YEARS AGO The Companies Act, 1900

(From the C. & D., August 25, 1900) Though contemptuously deprived of its pharmaceutical and medical ornaments, the Companies Act of 1900 is a measure of great importance, and one which is likely to have far-reaching effects. It may over-reach itself, and seriously hamper the development of legitimate business through joint-stock and limited-liability enterprise; but what is more likely to happen is that its benevolent intentions will be largely neutralised by the ingenuity of the threatened promoters and exorbitant vendors. It will be seen in the course of these remarks that, in some respects, companies formed to practise pharmacy, especially those family affairs which have been created with the express purpose of dodging the Pharmacy Act, will find their paths a little more rocky than they are at present. . . . There is every reason to believe that the transfer of commercial enterprise from individuals to corporate bodies will be largely extended within the coming fifty years. There is no chance whatever that the business of chemists and druggists can be fenced off from this invasion, which has indeed already largely succeeded. Hence, therefore, the importance of regulating the condition of company-pharmacy in accordance with the principles of the Pharmacy Act, so far as this may be possible.

PHOTOGRAPHY: THE PHARMACIST'S BIRTHRIG

By A. Aldington, M.P.S., A.R.P.S.

HE pharmacist's title to a prominent place in photographic dealing is established by tradition and training alike, yet too many chemists today are failing to claim what is in effect their birthright. Even in the height of the holiday season one sees many pharmacy windows that give no evidence of any interest in photography. Others perhaps show, tucked away almost apologetically in an odd corner of the window, a camera or two and a carton of film, or may "advertise" a developing and printing service with a display of prints of little or no interest outside the family circles of their authors.

Not a Side-line

Such displays are often immersed in or overshadowed by displays of side-lines which, though today usually associated with pharmacy, are less logically connected with it than photography. In fact, photographic dealing has been no side-line to the chemist. From the very beginnings of photography, a century ago, professional and amateur photographers alike have depended on the pharmacist for their supplies of chemicals. They required chemicals to sensitise their materials, develop and fix their negatives, fix and tone their prints. As photographic apparatus became less cumbersome, and ready-prepared sensitive materials appeared, amateur photography increased markedly in popularity; chemists continued to be called upon for supplies of chemicals.

Then the "labour-saving" era in photography set in. Publicity created the snapshotter—a camera-user with no technical knowledge and no interest in processing at home. His exposed film was left with a dealer, who in turn sent it to a trade house for processing. Though, to a large extent, the new apparatus and materials were distributed by chemists, the demand for advice dwindled and the average pharmacist became a stockist rather than a salesman.

There remained, of course, a nucleus of earnest photographers who found processing an important and satisfying part of photography, just as some chemists took into stock an increasing array of dishes, dark-room lanterns and other impedimenta beloved by the "serious worker." Today, there are businesses in which pharmacy and photography are separated into dis-

tinct departments staffed by assistants specialised training. The term "d chemist" is applied to differentiate from the "chemist-dealer," whose in in the photographic trade is only n There are also businesses devoted en to photographics, familiarly known it Photographic Dealers' Association as dealers." As the frustrations of war-tir strictions disappear, a new opportunity for chemists to do more than stock a few and one or two simple box cameras. may be tempted to say there is no de: for cameras when in reality the la inquiries is more than likely due to th sence of any display of photographic g Customers naturally go to the shop appears to offer a comprehensive sto large, practically untapped, potentia mand will remain unawakened unless vigorous measures are taken to a public interest in photography by wi and counter displays. Other traders seek the business if chemists do not.

How Training Helps

By his training, the chemist is ab take in his stride the technical sic photography, which is, after all, a n of applied chemistry and physics. the knowledge of basic optics gained i training he can make clear to his cust the phenomena of image formation. the practical side his training stands in good stead in compounding stock tions, or in doing methodical, acc work in the dark-room. In fact, his ing gives him an enviable lead over de who have no such background. P graphic dealing, too, thrives on per service to customers—and is not the macist's business already built on The public look to the pharmacis advice on many quite personal matter he sets out to interest them in photograhe starts with the advantage of posse their confidence. There are, in fact, 1 reasons why, by relegating photograsales to the background, the pharm may be yielding his birthright to an trader. With the approach of au there comes a day of decision—to sign the photographic goods to the s room till the spring? Or to keep the the fore, in token of a resolve to s cater for, and encourage the interes photographers of today and the ful



"American Druggist," principal Press champion of United States pharmacy owners, campaigns against a non-existent Health Service

ways that would be certainly unusual a British technical or trade publication, "American Druggist" devotes its July ber to the politics of the 1950 Consional election campaign. A series of cles occupying many pages includes an usive appeal to the druggists of the ntry from "the only living ex-presit," (Herbert Hoover). James A. Farley, ose renown as a Party manager (he is cribed as "one of history's most astute iticians") has made him, even on this of the Atlantic, almost a legendary are, contributes an article commencing olitics is the great American game." If the editor (Mr. John W. McPherrin), a leading article entitled "Where do stand?" places on America's 50,000 community druggists "the responsibility creating "enough alert voters among ir 20 million daily customers to elect

WHY GOVERNMENT HEALTH
INSURANCE IS
THE BIG ISSUE

good candidates who think as they do." Mr. McPherrin, with whom many British pharmacists became acquainted when he visited Britain earlier in the year, does not directly mention medicine or pharmacy in his editorial comment. He describes the decision facing druggist voters as being between Democracy and Socialism or some other variety of what he calls "statism" ("it can be labelled Communism, Fascism, Socialism or some other form of collectivism").

What that basic choice means to his readers is made clear, however, in other parts of the paper. Wallace Werble declares that "the health issue is at the core of the political philosophies now active in America" and goes on to enumerate "eight major ways to solve the health problem." After studying them, the druggist is invited to complete and return a postcard indicating his choice and pledging himself to let his candidates and customers know where he stands. Another writer, Merryle Rukeyser, presents "some of the other problems that will face the next Congress," and by his title "Health isn't the only issue of the fall campaign," effectively reinforces the suggestion powerfully conveyed by the remainder of the issue that it is easily the most important issue. The horrid example of Britain is held up in a warning, presented under the title "British Government cuts prescription profits 50 per cent.", that "all is not sweet and light in Great Britain's health scheme."

PHARMACY LAW OVERSEAS

By Charles Stevens, LL.B., M.P.S., Barrister-at-Law

2.—Union of South Africa

LEGISLATION dealing with the practice of pharmacy and its allied trading in the Union of South Africa, a comparatively young country, is relatively simple, being codified mainly in the Medical, Dental and Pharmacy Act, 1928. That Act replaces all previous legislation on the subjects in South Africa, notably the provincial codes under which the four provinces operated until 1910.

English Law the Pattern

South African pharmacy law closely follows English pharmacy law. The profession is governed by the South African Pharmacy Board, a statutory body set up under the Act and with many powers similar to the British Pharmaceutical Society. The Board, however, has power to remove a pharmacist, not only for mis-conduct, but also if he has been absent from the Union during any three years preceding the date it is proposed to erase his name from the register. Admission to the register is secured by examination and the Board can admit anyone who holds a diploma, not only under South African examinations, but issued by a competent body in any other country, provided the diploma would allow the person to be registered where issued. It is under that authority that reciprocity between Great Britain and the Union exists. Apprenticeship is legally necessary and the Act states that, in addition to a recognised course of training and the passing of an examination, a chemist and druggist must serve an indentured apprenticeship of not less than three years. If he holds a foreign diploma the intending chemist and druggist must have had an apprenticeship or a similar course of training also of not less than three years.

The practice of pharmacy is more protected in South Africa than in the British Isles for, in addition to the privileged field of selling poisons, South African law considers the following as specially pertaining to the calling of a chemist and druggist:—

(a) The preparation or compounding, etc., of any medicinal substance (whether or not it contains a poison) for sale or supply as a "medicinal substance" for human use; (b) the dispensing of any drug, etc., prescribed by a medical practitioner, den-

tist or veterinarian; and (c) the man ture or the supervision of the manufa of any proprietary medicine. For an qualified person to commit any of acts is a breach of the law. It wi noticed that such a ruling prevents th ploitation of the proprietary medicine by unqualified manufacturers, and South African law does not offer in field the alternative to a pharmacist "pure" chemist in control, as does Br

In South Africa poisons are set of the Fourth Schedule to the 1928 Act fall into two Divisions. Division 1 r be considered as containing the more gerous poisons, and Division 2 the ot Poisons in the South African Division and 2 are similar to those in Parts 1 a of the pre-1933 classification in Bri

Sale of Poisons

Poisons can normally be sold only registered chemists and druggists on r tered premises, although magistrates license agricultural dealers to supply na poisons to customers. This is consid necessary in a large scattered commi where the services of a chemist and c gist are not always available. Poisons be labelled in English and Afrikaans bear the words "Poison" and "Ver The name and address of the seller appear on the label, and if the poise in Division 1, a poison book entry i quired similar to that in Britain. T are the usual dispensations regarding le ling of dispensed medicines. Poisons : be stored under proper control and Act in South Africa is so interpreted wholesalers may only store poisons at mises which are under the control qualified chemist. No poison may be or supplied to a person apparently u the age of fifteen, except under cor cated safeguards, including signed autl sation.

As with the practice in Britain price 1933, there is a list of substances to labelled (in English and Dutch) with word "Poisonous." The list includes phuric acid, nitric acid, liquid amm and zinc chloride, certain strengths of bolic acid, and (unlike the previous Br practice) absolute alcohol, rectified methylated spirits.

The South African pharmacist is liable for the act of his employees in 1

concerning poisons unless he can prove il default. The South African Phary Act makes it illegal for any chemist druggist to pay a practitioner any comon in connection with a prescription.

. Provisions

here is no Dangerous Drugs Act as, although international agreements on erous drugs have been put into effect neluding regulations under the Phary Act. These regulations and the subces listed under them are almost identiwith the British Dangerous Drugs Acts their amendments.

s the need for pharmaceutical legisn and control extends in South Africa e is a tendency not to pass a new Act Parliament but to make regulations er the existing Act, authorised by the ernor General. This is seen, for exle, in the South African Therapeutic Substances Regulations which were made under the 1928 Pharmacy Act. They are almost identical with the British regulations provided under the Therapeutic Substances Act.

Acts of Parliament that affect pharmacists marginally have, however, been passed, for example, the Fertilisers, Farm Feeds, Seeds and Remedies Act, 1947, and regulations made thereunder to control stock remedies. Stock remedies form a large part of the business of the country chemist in South Africa and nearly all preparations for direct sale to the farmer are controlled. There is no control over stock remedies prescribed by a veterinary surgeon or practitioner. Each preparation must be registered with the authorities, and the labelling and advertisements are controlled. Food and Drugs legislation in South Africa is similar to that in Britain. The British Pharmacopæia is official in the Union.

NATIONAL HEALTH SERVICE ACCOUNTS

: Committee of Public Accounts, in its th report just published, considers that ctive parliamentary control of the ional Health Service finances demands e detailed records of payments to pharists and others. The only detail, it its out, given in the Executive Coun-Accounts of the payments to pharcists (which cover the cost of goods plied and remuneration for their sers) is the small sum paid in England Wales for rota service outside normal irs. No details of the payments to local Ith authorities are given in either Estites or Accounts. The Ministry has wn that of the total payments of 0,275,000 to pharmacists in England l Wales, some £15,500,000 (51 per t.) was to cover the cost of goods and tainers, £4,700,000 (16 per cent.) was overheads and profit, and £10,000,000 per cent.) was remuneration for pro-ional services. The Committee hopes t, "wherever possible, details of paynts which include any substantial ount for goods supplied as well as prosional remuneration will be provided in ure Estimates and Accounts.

ntractors Estimates Unchecked

Dealing with the levels of remuneration hin the Service, the Committee says, it the Departments have not yet checked of the estimates of work that would be be by contractors under the Service against actual experience, but some of them had been "clearly falsified by experience." It was thought, for example, that the number of prescriptions dispensed by chemists would increase from 70 millions a year under the National Health Insurance scheme to 140 millions under N.H.S, and that private sales of drugs and appliances would be reduced.

Total Remuneration Not Known

The number of prescriptions dispensed by chemists in 1949-50 had proved to be, however, about 200 millions. Cuts had been made in their remuneration, but the Departments did not know the total payments made to individual chemists and had little information as to the effect of the Health Service on their earnings from private work.

Copies of the report are obtainable from H.M. Stationery Office, York House, Kingsway, London, W.C.2, price ninepence each.

Raw Material Survey Series. — Recent additions to a series of booklets on world sources of supply of the principal raw materials being published by the Purchasing Officers' Association, Wardrobe Chambers, 146A Queen Victoria Street, London, E.C.4, include "Oils and Fats" and "Cotton." Copies are obtainable from the Association price 2s. 6d. and 2s. each, respectively.

ASEPTIC WORK IN A SHOP DISPENSARY

HILE dispensing in retail pharmacy seems to become more and more a matter of stocking as many ready-made mixtures and other preparations as possible, in recent years considerable advances in medical and pharmaceutical research have come to require of the pharmacist a new technique: aseptic dispensing. The opposing tendencies were brought sharply into focus by the intro-

duction of penicillin. For the small business the problem has been specially acute. To what extent is aseptic dispensing called for, and what provision should be made for it? National Formulary directs that, in addition to certain penicillin preparations, all eye drops shall be freshly prepared "with aseptic precautions." They cannot, therefore, be dispensed and issued with the same speed and dispatch as stock ointments and mixtures. The pharmacist in a busy dispensing department finds himself confronted with a steady pressure of work. Most of the items to be dispensed may be dealt with rapidly, but an occasional item requires more careful execution. When, owing to staff shortage, he is working without help, he must interrupt the rhythm of his work if aseptic dispensing is called for. It then becomes difficult for him to maintain a steady output of work. There are two approaches to a solution of the problem.

Anticipating the Prescription

The first is to dispense in anticipation of the prescription. If there is a reasonable certainty of regular prescriptions for, say, penicillin cream, the pharmacist is justified in having a jar or two of it ready for issue on receipt of the prescription. That is only practicable, however, so long as the cream made is required on the day of preparation. If it is issued later than this, then its effective life is less than the patient is entitled to expect, and its strength substandard as a result of the slow decomposition of the penicillin in solution.

The second approach to the problem is to ask the patient to allow extra time. Then when several prescriptions requiring aseptic dispensing have been accumulated, they may be taken together in a separate session. In that way they call for a minimum of preparation.

The situation, with its dilemma, is familiar to all pharmacists, and there would

be little point in calling attention but for the temptation it presents, espe in the absence of standards for "a precautions," to apply to extempora penicillin preparations the same stan as apply to the bulk of dispensing, temptation must be resisted if the p is not to suffer. In the making of cillin cream, bacteria must be exc for the reason (which does not obtat an ordinary ointment), that the act of penicillin is destroyed by en elaborated by many airborne bacteri

Isolation Essential

The keynote of all aseptic work is tion. How separate it may be kept other work depends upon the space able. A separate room is usually o the question, but if possible a special of-the-way dispensing counter shoul used, and the use of a dispensing s (standard types are commercially avail is to be strongly recommended. The se in addition to keeping out dust, pro a compact unit. Even without su screen, conditions may be improvised considerably reduce the risk of bac contamination. A piece of American or other similar material, large enou cover the whole depth of the dispe counter, obviates the risk of pickin dust from the counter. It does no course, exclude airborne dust. Dra are a danger, and the work should on done in a still atmosphere.

The minimum apparatus required sists of a Bunsen burner and a pair o ceps. The burner creates a draught, should be used outside the dispe screen. The operator should put on a overall, rolling the sleeves above th bows. All surfaces (the inside of the sc the surface of the American cloth; the hands and forearms of the ope should be swabbed with an antiseptic, as one of the modern disinfectants on chloroxylenol.

The penicillin preparations in redemand that must be extemporane prepared are the cream, eye drops, and drops. For each of these the ster vehicle may be purchased ready mad stock of sterile bottles, capable of hol when full, the exact volume requisional be kept for the eye drops and drops. The containers also may be tained from outside sources.

nique Outlined

nicillin eye and ear drops are pred by transferring one or more solutionts of penicillin to one of the standard e bottles, and filling with the approes solvent (liq. pro guttis, N.F., or per cent. chlorocresol solution respecty) finally closing and shaking to distance the same and eye-drop bottle) is opened, its the must be flamed at the Bunsen er. The difficulty of transferring the ct number of tablets is overcome by forceps, sterilised in the flame.

he cream base for making penicillin m, N.F., is available in jars contain-27 gm., labelled with directions. The cillin is dissolved in 3 mils of boiled cooled distilled water and added to the contents in the jar, which is closed and shaken vigorously until mixing is complete. To comply with these directions it is necessary to have ready the 3 mils of distilled water. In a test-tube marked at 3 mils, an excess of distilled water is boiled, and the tube cooled under the tap. The excess water is carefully poured away, and the penicillin dissolved in the 3 mils that remain. The solution is then transferred to the jar, and the product completed by shaking.

In making penicillin preparations extemporaneously, it must be remembered that the tube of solution-tablets has only to be handled carelessly on one occasion to expose to contamination any future products made from its contents, even if the most consummate skill is used in their preparation.

WORLD REPORT ON MALARIA

World Health Organisation's Expert imittee on Malaria states, in its report its third session, published recently as hnical Report No. 8, that despite the siderable amount of new evidence aculated recently about new antimalarial gs, the ideal drug has not yet been nd. The ideal should be a causal prolactic against all species of human aria parasites; a therapeutic and curaagent; possess low toxicity; and be dily available at moderate cost. In mass motherapy the cost factor is of prime ortance when selecting a drug, but it tht frequently happen that, in arriving a decision, the dosage per case is overked in computing cost. In the light of sent knowledge, it would be preferable concentrate on the production of syntics rather than on growing cinchona, ich would use up land needed for other icultural pursuits. Discussing five estabned groups of antimalarials, quinine, pacrine, chloroquine and other 4inoquinolines, proguanil, pamaquin and ier 8-aminoquinolines, the Committee rns that the general belief that quinine relatively non-toxic and can therefore be ely administered by non-medical per-inel is not borne out by a recent series controlled experiments where it was obved that quinine, in two cases, left a nstriction of the visual field throughout e period of observation which, in one se, lasted eighteen months.

The main advantages of mepacrine over inine are that it can be readily manu-

factured in quantity, it is a more effective therapeutic and suppressive agent, and, because of its slow elimination from the body, leads to wider spacing of relapses in vivax (and probably quartan) malaria.

The main advantages of chloroquine over mepacrine are that it allows more effective short-course or even single-dose treatments, relapses after its use are more widely spaced, and suppression can be obtained by administering the drug once a week. It does not stain the skin and eyes, and it does not ordinarily produce undesirable side-effects, although mild pruritus and temporary blurring of vision have been reported. Its disadvantages are that it has a smaller margin of safety than proguanil and is relatively expensive. Other aminoquinoline drugs closely related to chloroquine which possess similar antimalarial properties include Sontochin, Oxychloroquine, and SN 10,751. Work with experimental malaria shows none of them to be superior to chloroquine.

Although early trials with proguanil led to the belief that that was probably the ideal antimalarial, further investigations have uncovered certain limitations.

The advantage of Pamaquin and related 8-aminoquinolines is that, when given with quinine, and possibly other agents, radical cure of vivax malaria is obtained. This is a matter of great importance for individuals who are not likely to be re-exposed to malaria infection. Within the group pamaquin is the most toxic, followed by pentaquine and isopentaquine.

SCIENCE AT THE FESTIVAL OF BRITAIN

At the Festival of Britain, 1951, science, technology and industrial design will provide major features of the displays—principally for the reason, of course, that they can be illustrated more readily with tangible exhibits than can the achievements in religion, music, drama, literature, etc. There will be three Exhibitions at which scientific and technological progress will be illustrated:—

(a) On the South Bank of the Thames, London, where the practical consequences of pure science will be illustrated by many themes against a background of the living

working world in Britain today.

(b) At the Science Exhibition in South Kensington, where the emphasis will be on the revolutions in human thought that have resulted from man's scientific curiosity concerning the ultimate nature of matter.

(c) At the Exhibition of Industrial Power in the Kelvin Hall, Glasgow, where scientific knowledge and techniques are to be illustrated in their promotion of indus-

trial and engineering progress.

The Exhibition will be highly selective. Not only will the story be limited to illustrating British achievements, but the exhibits themselves will be selected solely for their appropriateness to that context and for their quality, design and efficiency. Many activities and industries in which British achievement is "not significantly in advance of other countries," will not be represented. The Exhibition is not a trade fair, and industries or businesses cannot buy exhibition space. The scientific displays will be selected on the grounds of their relevance to the story of British achievement.

Layout of the South Bank Site

The South Bank site will be utilised to provide two roughly semicircular sequences of buildings, divided by Hungerford Bridge. The sequences lying upstream from the bridge will tell the story of the Land of Britain and what the British have derived from it; the downstream sequence will be concerned with the people in their more domestic surroundings. British preeminence in exploration and discovery will be told within an aluminium Dome of Discovery, the largest dome in the world (diameter 365 ft., height 97 ft.). In the upstream sequence there will be displays showing how the wild life of Britain varies from one area to another, the interdependence of animals and plants, and how mathas modified the landscape. The parplayed by scientific research and mechar sation in British agriculture will be emphasised. Included in the displays will be eamples of British enterprise in the develoment of overseas territories by new for of survey, by research into local problem by combating disease, etc.

Health Section

The underlying theme of the dow stream sequence will be the aptitude of the British people for living and working groups and yet retaining their individuality. A Health Section will show ou standing British contributions in nursing medicine, surgery and public health fro Harvey's studies of the circulation of the blood three hundred years ago to present day research on the nervous system.

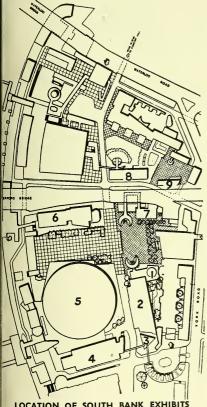
A Power and Production pavilion w display the harnessing of power, the us and processing of metals, the structure British industry and the rôle of researc design and management in the modern i dustrial organisation. The section will ou line the scope and achievement of Briti industries not by the display of any one its entirety but by selecting outstanding processes, machinery and techniques fro several groups of industries. Craftsmen w be seen at work demonstrating British sk and workmanship, and there will be diplays of goods to show the range and his standards of quality and design of Briti manufactures.

In the Dome of Discovery will be show alongside the achievements of such men Cook and Livingstone, the discoveries British scientists such as Newton, Darwi Faraday, Thomson and Rutherford. Or section will display the latest knowledge of the structure and nature of matter, cu minating in a display of nuclear energ The exhibits will include apparatus for analysis, synthetic fibres and plastics, dy stuffs, colloid preparations, soaps ar detergents, drugs, insecticides, antibiotic vitamins, photography, synthetics from petroleum, chemical aspects of atom energy. In the "Natural Resources" See tion will be shown coal-tar products an synthetics, industrial gases, heavy chem cals, china clay and sand, distillation an fermentation products; in the "Country Section, chemical fertilisers; in the "Power and Production" Section, foo

dyestuffs laboratories; in the lealth" Section, anæsthetics, hormones, d other products of medical interest.

esentation Panel

Prime responsibility for the South Bank hibition rests with the Festival of tain Office. The theme has been deed and is being carried into visual effect a team of experts representing science, hitecture, exhibition technique and in-



LOCATION OF SOUTH BANK EXHIBITS and of Britain. 2. Country. 3. Na . Land of Britain. esources. 4. Power and production. 5. Dome f discovery. 6. Transport. 7. People of Britain. Character and tradition. 9. Film and television.

ustrial design, and known as the Presen-ation Panel. The Panel meets under the hairmanship of the Director-General of he Festival of Britain. Leading scientists, ndustrialists, engineers and technicians lave been consulted. The selection of all the surrently manufactured exhibits is the res-

ponsibility of the Council of Industrial Design, which during the past year has been holding regular discussions with groups of and representatives manufacturers Trade Associations.

At South Kensington

At the Exhibition of Science, South Kensington, a limited topic has been chosen for exposition-the growth of understanding of the nature and architecture of matter. The method of treatment proceeds from the familiar to the unfamiliar, and the visitor will be led by easy steps from his ordinary knowledge of matter in its solid, liquid and gaseous forms, first to an understanding of the atomic and molecular "bricks" of which such materials are composed, then beyond the atom to the fundamental particles of which the atom is itself composed, and finally to the inner structure of the nucleus, "that citadel of the atom from which energy can now be unleashed for man's glory or ruin." Entry to the exhibition will be through a series of chambers in which ordinary objects are successively magnified until the spectator, narrowing on a single crystal, can see the atoms which compose it. The Exhibition is not designed for men of science or professional technologists, but for "that growing section of the general public with no specific scientific training but nevertheless with an active curiosity about scientific affairs."

At the Industrial Power Exhibition at the Kelvin Hall, Glasgow, will be developed two main stories—the story of coal and the story of water. The story about coal will include chapters on steel making and steel processing, the use of steam, the generation of electricity and the use of coal on our railways; while the story about water and water power will naturally deal with the North of Scotland Hydro-electric Scheme, as well as with Civil Engineering work in docks and harbours and also in connection with irrigation schemes overseas. Finally, the whole Exhibition will culminate in a display relating to the future source of useful power

-the atomic nucleus itself.

The Council of the British Association intends that its 1951 meeting should do all it can to further the objects of the Festival. The three Institutions of Engineers are combining in arranging a joint conference that will last ten days.

The Royal Society of Medicine is arranging a special series of addresses ap-

propriate to the theme,

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale qui ties of standard quality. Prices of crude drugs and essential oils vary as to brand or gr

28 Essex Street, W.C.2, Aug. 23 Trade in most directions continues active. There have been some price increases in Pharmaceutical and Fine Chemicals. Cadmium iodide is up by 6d. per lb. and THEOBROMINE ALKALOID by 1s. 6d. per lb. When the last price increase of electrolytic zinc took place some manufacturers of ZINC ONIDE did not increase their prices. They have now done so by £3 5s. a ton for the B.P. quality. ASPIRIN is reported to be in brisk demand, probably due to manufacturers of tablets stocking up for winter demand. The Ministry of Supply has increased the price of Lead four times in just over a month, consequently salts of lead are dearer. Antimony OXIDE and SULPHIDE are also dearer as a result of a recent advance of £10 per ton

CAMPHOR and MENTHOL continue very m. Stocks of Colombian IPECACUANHA have been cleared, and there are no offers from origin. The market for ESSENTIAL OILS continues firm with French LAVEN-DER, SICILIAN LEMON, PEPPERMINT, SPEARMINT and VETIVERT among the oils which have been marked up.

in the price of the metal.

U.S. Drug and Chemical Report New York, August 18

ALTHOUGH the high level of demand for CRUDE DRUGS noted in recent weeks has now abated, the Far Eastern situation has served to keep consumers active in the market; prices are generally unchanged, but firm. MENTHOL and QUICKSILVER continue in extend demands and MINTHOL is tinue in strong demand; spot MENTHOL is 50 cents per lb. dearer at \$13.75 per lb. on the inside. Formosan CAMPHOR was on the inside. Formosan Camphor was quoted at 45 to 46 cents per lb. against 41 to 42 cents previously. Alcohol, Salicylates and Glycerin are all in a very firm supply position. Five major producers of industrial alcohol have advanced their prices by 6 cents per gallon on ethyl alcohol. Production has been resumed at a contract of the trible based called in a contract of the contract of only one of the strike-bound alkali plants. and in the meantime the Soda ash shortage is becoming increasingly acute—with repercussions in the many consuming industries; current re-sale prices are as high has been advanced 2¹/₄ cents per lb. by a major producer, reflecting recent upward adjustments in CRESYLIC, PHOSPHORIC and Oxychloric acids, Glacial acetic ACID has been increased one half cent per lb, in price, the tankcar rate for technical material now being \$8 per 100 lb. While no price change was reported in Sulphuric acid, the material is in extremely short supply. The heavy buying of Essential Oils in recent weeks has eased off slightly,

though the price trend is still defini upward. Far Eastern and French prod are very tight at the source of sulalthough Spanish, South American West Indian materials were not und difficult to procure. Suppliers of PEP MINT OIL in the Mid-west have withdr their offerings for December delivery anticipation of higher prices. Previot it had been assumed that lower pri would result from the reports of a ; crop to come. Firm spots in this sec included Bergamot, Citronella f Java, Cassia, Coriander, Wormseed SPEARMINT OILS.

Pharmaceutical Chemicals

CADMIUM IODIDE. - Makers' price 26s, per lb.

Caffeine.—Steady. Makers' home-ti CAFFEINE.—Steady. Makers nome-to-prices for 1-cwt, lots are (per lb.) as lows:—Alkaloid, B.P., 37s, 6d. and hydrous, 39s.; Citrate, B.P.C., 21s. Sodium benzoate, B.P., 23s. 6d. Sod salicylate, B.P.C., 24s. 6d. Caffeine Sodium iodide is 30s. per lb.

Calamine.—Steady, 1-cwt, lots are

ted at 2s. $1\frac{1}{2}$ d. per lb.

Chlorocresol.—Pharmaceutical qua is quoted at 4s. per lb. in 1-cwt. drum Cholesterol. — In 1-kilo lots, 1

is about 126s. per kilo; 75 per cent 98s. and 50 per cent., 80s. 3d. per kilo.

Chrysarobin. — Quotations are f 35s. to 35s. 9d. per lb.

CREAM OF TARTAR. — Home-trade r per cwt, are as follows:—10-cwt, 1 142s.; 5-9 cwt., 143s.; 2-4 cwt., 14 1-cwt., 145s., delivered.

CRESOL.—Price of B.P. quality from tillers is 4s. 6d. per gall., delivered.

ETHER.—Prices of Solvent, B.P., TECHNICAL grades are unchanged, as Inchinical grades are unchanged, as lows:—1-ton, 1s. $6\frac{1}{2}$ d. per lb.; 10-c ls. $7\frac{1}{2}$ d.; 5-ewt., 1s. $8\frac{1}{2}$ d.; smaller quaties from 1s. $9d\frac{1}{2}$. to 1s. 11d. per Anesthetic, B.P., is unchanged, 1-ton 2s. $5\frac{1}{2}$ d. per lb.; 10-ewt., 2s. $6\frac{1}{2}$ d.; 5-ev 2s. $7\frac{1}{2}$ d.; 1-ewt., 2s. 8d.; smaller quantit from 2s. $9\frac{1}{2}$ d. per lb. The foregoing reason for others maked in winelestons. are for ethers packed in winchesters; carboys or drums, $1\frac{1}{2}$ d. per lb. less.

EPHEDRINE.—In 100-oz. lots, ALKAL is 11s.; Hydrochloride, 6s. 6d.; and S Phate, 7s. 6d. per oz.

HEXYLRESORCINOL. — B.P.C. materia 117s. for 56-lb. lots, and 118s. per lb. 28-lb. lots.

HOMATROPINE.—Makers' prices per are as follows (prices per gm. in bracket Alkaloid.—1 oz., 97s. 6d.; 4 oz., 92s. 6 z., 87s 6d. (4s.). Hydrochloride, ROBROMIDE and SULPHATE.—1 oz., 75s.; , 70s.; 16 oz., 65s. (3s. 2d.).

YDROQUINONE.—Bulk rates are as fol-: 10 cwt., 9s, 6d.; 5 cwt., 9s, 9d.; t., 10s.; 28 lb., 11s.; 14 lb., 11s, 3d.; , 11s. 6d, per lb. Carriage paid in U.K. урорноsрнітеs.—Makers' rates per lb. 7-lb. lots are: Аммоніим, 9s. 3d.; tum, 6s. 3d.; Calcium, 4s. 11d.; Iron, td.; Magnesium, 7s. 9d.; Manganese, 5d.; Potassium, 6s. 1d.; Sodium, d. Hypophosphorous acid.— In winters prices are around 6s. 2d. per lb.; arboys, 5s. 10d. per lb. asked.

opropyl alcohol. — Makers quote

3d, per gall, for small lots.

AOLIN.-In 1-cwt. bags, LIGHT is quoat 56s. per cwt., and HEAVY at about

6d. per cwt.

ACTATES. — Current quotations are: CIUM, 2s. 2½d. to 2s. 6½d.; CALCIUM IUM, 3s. 5d. to 3s. 9d. per lb.; LACTIC b. B.P., 3s. 3d. per lb. in carboys, 3s. 4½d. to 3s. 10d. in winchesters.

LAGNESIUM TRISILICATE (B.P.)—Prices r lb.) in the home trade are unchanged. tainers in brackets. 28-lb, to 1-cwt., 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. b.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); (28-lb.) per lb, Larger quantities range n 3s. 2d. to 3s. 4d. per lb. in 28-lb, kages, carriage paid.

IETHYL SALICYLATE.—Prices increased threepence per lb. on July 14. Curtrates are as follows: Winchesters, 8½d. per lb.; 56-lb. lots in demijohns, 7d.; 1-cwt., in demijohns or carboys, 6½d.; 5-cwt., 2s. 6d.; net.

DXALIC ACID.—In 4-ton lots, prices are 0 10s. per ton in casks and £134 10s. kegs; contracts, £128 and £132 per ton, pectively. 2 tons and less than 4 tons, per ton more; 1 ton, £2; 10 cwt., £7; wt. and under, £12 more than the foreng rates.

ANGREATIN. — 1 cwt. lots of B.P. are oted at 9s. per lb., and 28-lb. at 10s. S.P., 1-cwt. lots, 11s. 6d. per lb.

Pepsin.—In 28-lb. lots, B.P. is 26s. 9d. lb. and U.S.P. is 29s. per lb.

PHENAZONE.—Prices quoted for Britishde and imported material range from

6. 6d. to 25s. per lb.

PHENOBARBITONE. — Home-trade prices unchanged at from 35s. per lb. uprds, according to quantity.

PHENYLACETIC ACID.—1-cwt. lots are now oted at 5s. per lb.; smalls, up to 5s. 9d.

Potassium bromate. — Makers' prices lb. are as follows: -One cwt., 5s. 3d.; lb., 5s. 9d.; 28-lb., 6s. 3d.; smaller antities up to 6s. 9d,

Potassium nitrate. — Makers quote 1cwt. lots of B.P. quality as follows:— Powder, 87s. 6d.; crystals, 86s.; granu-lated, 85s. per cwt. Commercial quality is 81s. per cwt. Smaller quantities are 5s. per cwt, more than above rates.

- Makers' rates (per oz.) to Quinine. home-trade distributors are given below: additional charges must be added for repacking, etc. ALKALOID, from 5s. to 5s. 6d.; Acetylsalicylate, 6s. 3d. to 6s. 9d.; Bisulphate, 3s. 7d. to 4s. 1d.; Dihydrobromide and Dihydrochloride, 4s. 11d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 3d.; Glycerophosphate, and Phos-PHATE. 5s. 5d. to 5s. 11d.; Hydrobromide and Hydrochloride, 4s. 6d. to 5s.; Sali-CYLATE, 4s. 8d. to 5s. 2d.; SULPHATE, 4s. to 4s. 6d.; QUININE and UREA HYDRO-CHLORIDE is quoted from 4s. 10d. to 5s. 4d.

Compound	Under 25 oz.	25 oz. and under 100 oz.	and under 500 oz.
Alkaloid Bisulphate Hydrochloride Hypophosphite Nitrate	s. d. 6 2 5 4 5 11 9 8 5 11	s. d. 6 o 5 2 5 9 9 6 5 9	s. d. 5 10½ 5 0½ 5 7½ 9 4½ 5 7½
Sulphate (neutral powder No. 2) Sulphate (neutral crystal and powder)	4 11	4 9	4 7½
der)	5 6	5 4	5 21/2

SODIUM LAURYL SULPHATE.—B.P. material is quoted at about 8s. 6d. to 9s. per lb. for small quantities. EMULSIFYING WAX is about 5s. 3d. to 5s. 6d. per lb.

SODIUM PARA-AMINO SALICYLATE, - British-made material is quoted at from £5 to £5 10s. per kilo.

SULPHAGUANIDINE. — 1-cwt. lots 19s. 3d. per lb.; 14-lb. lots are now 20s 6d.

Sulphanilamide.—Makers' rates per lb. are:—5-cwt. lots, 7s. 10d.; 1-cwt., 8s.; 28-lb., 8s. 3d.; 14-lb., 8s. 6d.; 7-lb., 9s. per lb.

Tannic Acid.—Prices advanced sixpence per lb, on August 10. Home trade rates for Levis, B.P. (ex ether) in 1 cwt. lots is 7s. 6d. per lb.; B.P. powder is quoted at 7s. 3d. per lb. for the same quantity.

Theophylline. — Prices of Alkaloid range from 60s. to 65s. per lb., as to quantity.

Theobromine.—Existing schedules have advanced. Price for 5-cwt. lots is 37s. 6d. per lb.

ZINC OXIDE.—Prices for B.P. quality only in minimum lots of 2 tons, £133 5s. per ton,

Crude Drugs

Aconite.—Indian on the spot is quoted at 285s. per cwt.; napellus is quoted at 3s. 10d. per lb., spot, duty paid.

ANISE (STAR).—Spot quotations are at 150s. per cwt. No offers from origin.

ANTIMONY.—English 99.6 per cent. is now £160, and 99 per cent., £150 per ton.

ARECA NUTS.—Spot quotations are from 37s. 6d. to 50s. per cwt., as to quality.

ARNICA FLOWERS.—Spot quotations are from 1s. 4½d. to 1s. 6d. per lb., duty paid. BENZOIN.—Prime Sumatra is offered at from £17 to £18 10s. per cwt., spot.

BISMUTH.—In minimum 2-cwt. lots the rate is 14s. 6d. per lb.

BUCHU.—Short-round leaves are steady at from 2s. 6d. to 2s. 8d. per lb. on the spot; for shipment, 2s. 3d., c.i.f.

CALUMBA. — Quiet. Natural sorts are quoted at from 75s. to 80s. per cwt., spot.

CAMPHOR.—A firm market. Chinese 4-oz. tablets are quoted from 5s. 2d. to 5s. 6d. per lb., duty paid spot London; from Hong Kong, for August-September shipment, 4s. 10d., c.i.f. Chinese refined powder (B.P.) is from 4s. 9d. to 5s., duty paid; August-September, 4s. 6d., c.i.f. B.P. grade, on spot, 3s. 9d., duty paid. 2½-lb. slabs on spot are offering at 4s. 3d. per lb., duty paid; 3s. 6d. per lb., c.i.f.

CANTHARIDES. — Chinese on the spot is 5s. 6d. per lb.; for August-September shipment, 4s. 10d. per lb., c.i.f., indicated.

Capsicums. — African on spot is 190s. to 250s. per cwt., as to quality and origin.

CARDAMOMS.—Green Aleppy on the spot, quoted at from 17s. 6d. to 18s. per lb.; Aleppy split seeds, on the spot, are quoted at 23s. per lb.

Cascara sagrada, — New peel for August-September shipment is quoted at from 225s. to 228s. per cwt., c.i.f.

CHERRY BARK. — Supplies on the spot are quoted at 2s. 2d. per lb., duty paid.

COLCHICUM. — Corms on spot are quoted at from 2s. 3d. to 2s. 9d. per lb., as to test: seeds, from 7s. 6. to 9s. per lb., spot, duty paid.

Colocynth.—Fair-quality white pulp on spot quoted at from 1s, 9d, to 2s, per lb.

GENTIAN.—French on the spot is quoted at from 90s, to 92s. 6d. per cwt.

Gum acacia.—Kordofan cleaned sorts on the spot, offered at 95s. 6d. per cwt., spot London or Liverpool; August-September shipment, 87s. 6d., c.i.f. Bleached gum. 165s., spot. Talha is 55s. nominal per cwt., on spot.

Henna. — Sudanese, brownish, on the spot, quoted at 90s. per cwt.; Indian green, for shipment, 95s., c.i.f.; Egyptian, 105s., spot,

Honey.—Prices for manufacturing grare as follows:—1-cwt., 86s.; 5-cwt., 10-cwt., 82s.: 1-ton, 80s. per cwt., carpaid in U.K., packed in 60-lb. dr Refined honey: In 56-lb. tins, 1028-lb., 115s.; cases of four 7-lb., 130s. cwt., carriage paid.

IPECACUANHA. — Very firm. Nicaras on the spot is quoted at 38s. 6d. per for shipment, 36s., c.i.f.

IRISH MOSS.—No. 1 carragheen on

spot is quoted at 87s. 6d. per cwt.

KINO.—Indian on the spot is quoted 6s 9d. per lb.

Kola nuts.—African quarters are f $4\frac{1}{2}$ d. to 5d. per lb., spot London. Jama halves, $5\frac{1}{2}$ d. per lb., spot.

LANOLIN.—B.P. anhydrous is £120 ton; hydrous, £90. Superfine anhyd is quoted at £126 per ton. In short sup

MENTHOL.—Chinese on spot, sellers asking 96s. to 97s. 6d. per lb., duty j (in bond, 92s. to 93s. 6d.); August tember shipment, 87s. 6d. nominal, c.i.

Mercury. — Spot quotations are f £19 10s. to £21 10s. per flask, ex w house, according to quantity.

SARSAPARILLA.—Jamaican native red spot is 2s 4d. per lb.; for shipment, 2s. to 2s. 2d., c.i.f.

SENNA. — India is quoting new-cleaves for October-November shipment the following (c.i.f.) prices:—Pri bold, 1s. 1½d.; No. 1, 11½d.; No. 10¾d.; No. 3, 9¾d. per lb. F.a.q., No 11¼d.; No. 2, 10¼d.; No. 3, 9¼d.; gra No. 4, 8¾d.; ungraded, cleaned, 8½d., stalky, 8¼d. per lb. F.a.q. pods are Is. (and hand-picked, 1s. 2½d. per lb., c. September-October delivery. Alexandr new-crop, No. 2 pods, 4s. 9d. per lb., minal. Alexandrian leaves, 8d., spot; sings, 7½d.

SHELLAC.—F.O.T.N. pure, on the si is now quoted at 330s.; F.O. Standard 345s.; and fine orange, 365s. to 410s. cwt., ex warehouse London.

Waxes.—Firm. Bees'—Dar-es-Salar 425s. per cwt., spot; August-Septem shipment; 420s., nominal, c.i.f. Bengu on spot, 410s., duty paid (375s., in bon for shipment; 375s., c.i.f. Abyssini 410s. per cwt., spot; for shipment, 37 c.i.f. Candelilla.—Spot is now 485s. cwt. Carnauba.—Fatty grey on spot August delivery, 825s. per cwt.; August delivery, 825s. per cwt.; August delivery, 825s., c.i.f.: Septe ber-October, 775s., c.i.f. Prime yellow 1,030s. per cwt., nominal, spot; August September shipment, 1,000s., c.i.f. Mont.—Reibeck is 135s. per cwt. on the spe for shipment, 130s., c.i.f. Ochicur.—impurities is scarce on spot, 700s. per cw nominal; 0.5 per cent. for August-Septeber shipment, 655s., c.i.f., nominal; 2.1; cent. impurities, 690s. per cwt., spot; per cent., 660s. per cwt., spot; per cent., 660s. per cwt., spot.

Essential and Expressed Oils

LMOND.—Expressed sweet oil (B.P.) on spot is from 5s. 6d. to 6s. per lb.; er essential oil, s.a.p., on the spot, is 24s. to 40s. per lb., as to grade. MBER.—Rectified on the spot is offered s. 2d. per lb.

NISE.—For drums on the spot, 10s. 6d. 1s. 6d. per lb. is asked. Higher prices

forward shipment.

AY.—West Indian on the spot is quoted rom 6s. to 7s. 6d. per lb.

ERGAMOT. — Spot quotations are from to 38s, per lb., as to quantity. IRCH TAR.—Steady. Crude is offered

bout 6s. per lb., spot London.

ois de rose. — Brazilian on the spot rom 25s. to 27s. 6d. per lb.

LADE.—Spanish oil, B.P., on the spot, noted at from 2s. 9d. to 3s. 9d. per lb. AJUPUT. - B.P. quality is quoted at n 18s. to 19s. 6d. per lb.

MAMPHOR.—White oil on the spot is quoat 2s. 6d. per lb., duty paid; brown from 1s. 6d. per lb., spot, duty paid. Jananga.—Java is offered at from 30s.

32s. per lb., spot; for shipment, 29s.,

Jaraway.—English-distilled is quoted at m 35s, to 37s. 6d.; imported oils are of-ed at from 25s. to 26s. 6d. per lb., on spot.

Cardamoms.—English-distilled is quoted from 450s. per lb.; imported, from 330s. 350s., duty paid.

Cassia.—Firm. Spot quotations are no-nally 18s. 6d. per lb.; August-Septem-; 18s., nominal, c.i.f.

CEDARWOOD.—East African is quoted at 6d. to 4s. 6d. per lb., spot London;

las, 3s. 3d. ner lb., spot.

CINNAMON.—B.P. oil on the spot is quoat from 50s, to 100s, per lb. Bark is offered at from 17s, 6d, to 20s, per Seychelles leaf oil is from 8s, 3d, to per lb., spot.

CITRONELLA.—Firm. Ceylon is quoted on 9s. to 10s. per lb., spot; August-ptember shipment, 9s. 6d., c.i.f.: Java,

shipment, 16s., c.i.f., quoted.

CLOVE.—Firm. English-distilled bud oil quoted at from 15s. 6d. to 16s. 6d. per as to quantity; Madagascar bud oil, 6d., duty paid, nominal. Zanzibar rerked oil on spot is quoted at 12s. 6d. r lb.

COPAIRA. - Spot quotations are from

s. 6d. to 15s. per lb.

CORIANDER. — English-distilled is quoted about 250s. to 260s, per lb. Dutch on e spot, 170s. per lb., duty paid.

DILL.—English-distilled oil is quoted at out 65s. per lb. for B.P. quality. Imrted oils are offered at from 28s. to s. 3d. per lb., as to quality.

EUCALYPTUS. — Australian, 70-75 per cent. (B.P.), is valued at 5s. 3d. to 5s. 9d. per lb., spot; 80-85 per cent., 5s. 6d. to 6s. per lb.

Geranium.—Spot quotations for Bourbon are from 150s, to 155s, per lb.

Gualacwood.—Spot quotations are from 17s. 6d. to 19s. per lb., duty paid.

JUNIPER BERRY.—Imported oils are quoted at from 18s. to 20s. per lb., duty paid; English-distilled, first quality, is offered at from 95s. to 100s. per lb.; B.P.C. oil is 25s.

LAVENDER.—French, 40-42 per cent., nominal price from new season's crop, 33s. 6d to 36s. per lb. Spanish spike is offered at from 10s. to 12s. per lb., spot.

LAVANDIN. - Supplies on the spot are

available at about 17s. per lb.

Lemon. — Sicilian hand-pressed, 4 per cent. citral, on the spot, is quoted at from 40s. to 42s. per lb.

LIME.—West Indian on spot is quoted at from 52s. 6d. per lb., for good-quality

NEROLI.—New-crop French on the spot is offered at 55s. per oz.; Spanish, 25s. per lb., spot.

NUTMEG.—Prices of English-distilled oil are at 32s. 6d. to 37s. 6d. per lb.; second-grade, 25s. per lb. Imported oil is offered at around 32s. 6d., duty paid.

OLIVE.—Edible oil in drums is quoted at from 26s. 2d. to 26s. 3d. per gall., exwarehouse.

ORIGANUM. — Palestinian is offered at from 15s. to 17s. 6d. per lb., spot.

PATCHOULI.—Supplies on the spot are quoted at from 135s, to 140s, per lb.; for shipment, 116s., c.i.f.

Peppermint.—Quiet, Spot quotations for Chinese (M. arvensis) are from 38s. to 40s. per lb.; August-September, 32s., c.i.f. Piperita, B.P., is quoted at from 55s. to 60s. per lb., spot.

Petitgrain.—Paraguayan is quoted at from 14s. 3d. to 16s. per lb., spot.

PINE.—Pumilionis, about 16s. to 17s. per lb., spot; sylvestris, from 10s. to 12s. 6d.

Rosemary.—Spanish first-grade on spot is offered at 6s. 6d. to 8s. per lb., duty paid., as to quantity; for shipment, 5s. 3d. to 6s. 6d., c.i.f., as to grade.

Spearmint.—Spot quotations for B.P.C. quality are from 43s. to 45s. per lb., duty paid.

Teaseed oil.—19s. 6d. per gall., spot. ex refinery.

THYME. — Red oil (40-42 per cent. phenols), 10s. 6d. to 12s. 6d. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

Vetivert.—Bourbon on spot is quoted at 160s. per lb., nominal.

YLANG YLANG. — Bourbon on the spot is quoted at from 80s, to 85s, per lb., for a first-grade oil.

D.

CORRESPONDENCE

Herbs in London

SIR,—Xrayser mentions (C. & D., August 19, p. 237) that the sellers of herbs in the old herb markets of London were girls and women. It may be that the vestige of a link with them remains today in the street lavender sellers who, even so recently as a few weeks ago, were to be heard in City streets selling new-crop flowers to the familiar old London Cry: "Will you buy my sweet lavender?"

LONDONER

A Package Canada Prefers

Sir,—We have read with interest the article "Packaging for Canada" (C. & D., August 5, p. 182) and would like to refer to your comment that the packaging of British medicines was criticised more than of any other class of product. Our Fruit Salt packaging was given special men-tion in the report. Under the heading "Best Packaged Brand" (p. 67), it was referred to as one of the most popular of packages. Though now made in Canada by our associate, J. C. Eno (Canada), Ltd., the package is identical with that recently introduced on the home market, and which we have supplied to our numerous overseas markets for many years. It is gratifying, particularly to us, that it is a British product which is regarded in such a critical market as Canada as being one of the most popular of all packages.

Watford, Herts. J. C. Eno, Ltd.

Youth v. Middle-age

SIR,—Is there a wave of indifference sweeping across this country or is it purely my imagination? After many years in the Dominions it amazes me to see the boys and girls of this country drifting around in a half-awake dreamy sort of torpor, like old fossils. Young assistants seem too tired, too sleepy, too disinterested in their jobs, to be even civil. We have recently dismissed a youth of eighteen (who, though recommended by his schoolmaster as an exceptionally good boy, above nor-mal intelligence), proved to be such a "dreamy Daniel" that two of us, middleaged men, do three times as much work, and much more efficiently, in half the time. Even simple tasks like dusting shelves, or packing pills or tablets, unpacking goods, etc., he did in a slow, dreamy way, as if it was all great effort, Australia, youngsters are tough and of energy, they are taught to work and play hard, and they grow to be active citizens. They are different people at home in Britain: we appea different, and I'll risk being termed fashioned in stating that middle-aged have far more life, far more real ir gence, far more zest for life and li than these blasé, apathetic, soft and baked youngsters. What do the more generation say?

TRADE MARKS

(From the "Trade Marks Journal," August For photographic chemicals and sensitised terials (1).—"Kodaprint"; by Kodak, Ltd., don, W.C.2; 688,977.

For cosmetics (3).—"CONTOURE"; by A. lauer Export Corporation, New York; 656,

For detergents (3).—"Delv"; by Life Products, Ltd., London, E.C.4; 677,331.
TORO"; by Laporte Chemicals, Ltd., L681,564.

For non-medicated toilet preparations "FLAMGLO"; by Abacus Paper & Plastics, London, W.1; 683,584. "ROULETTE"; by Claridge, Ltd., London, W.; 688,361.

For all goods (3).—"MAGNUMO"; by 1 Green, Ltd., Barking; B683,851.

For face lotion (3).—"SCHERK FACE LOT on label device; by Scherk, Ltd., London, F 684,612.

For insecticides and fungicides (5).—"S LIN"; by Sandoz A.G., Basle; 680,982.

For bactericidal preparations for sterilising ing and drinking containers (5).—"VANTOC' Imperial Chemical Industries, Ltd., Los S.W.1: 686,021.

For pharmaceutical preparations (5).—"
HALANT" "BEN-A-HIST" "BENAZMA"; by C
Bencard, Ltd., London, S.W.1; 686,378-80.

AVIT"; by Roche Products, Ltd., Welwyn Ge
City; 686,580. "TURK-E-SAN"; by Boots
Drug Co., Ltd., 686,761. "SUPPLEX"; by G
Bustard, co. Derry; B688,828. "CALMASTH.
by Clinical Products, Ltd., Richmond; 689,1

For iodised oil for veterinary purposes ("VETIOX"; Menley & James, Ltd., Lon S.E.5; 689,011.

For all goods (5).—" SEDATONE "; by Cli Products, Ltd., Richmond; 688,705.

For combs and brushes (21).—"CALVEX" Isidoro Bibiano Calvete, Sunbury-on-Tha 685,925.

For vacuum flasks (21).—" HALVAC"; by Hall Trading Co., Ltd., London, E.C.4; 687,



Summer time puts the accent on organized sport and exercise. And wherever there are communal showers, baths and pools, there is the ever present threat of fungus skin infection in one form or another.

Mersagel is designed specifically to combat these distressing conditions.

It contains the powerful fungicide, phenylmercuric acetate, in a special water-soluble jelly base. *A colourless* jelly, Mersagel is therefore clean to use—a very powerful sales-point. Moreover, Mersagel does not irritate the normal skin and is suitable for the customer's personal application.



LAXO LABORATORIES LTD., GREENFORD, MIDDLESEX. BYRon 3434



Bouquet • Magnolia • Bon-Bon • Jade • Honeysuckle • Sandalw

3 oz. TABLET 1/3 (10/- doz. inc. tax).

6 oz. TABLET 216 (201- doz. inc.

The EVANS service

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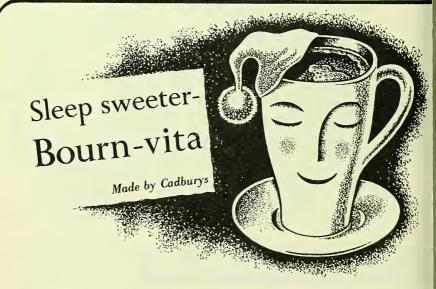
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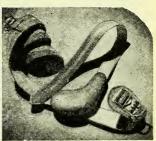
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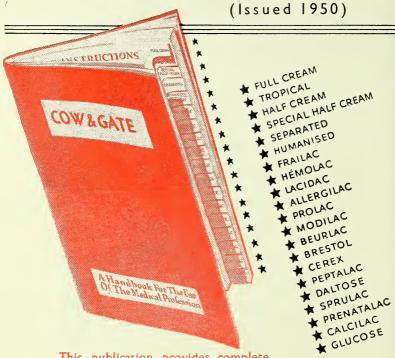
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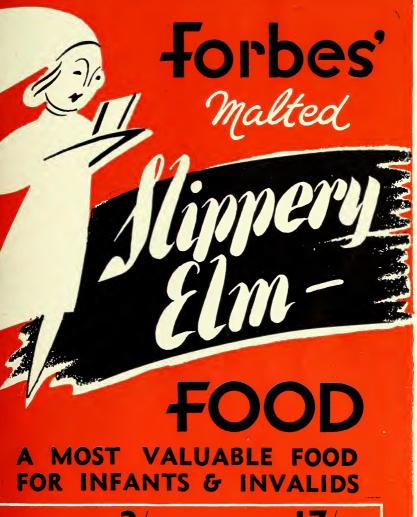
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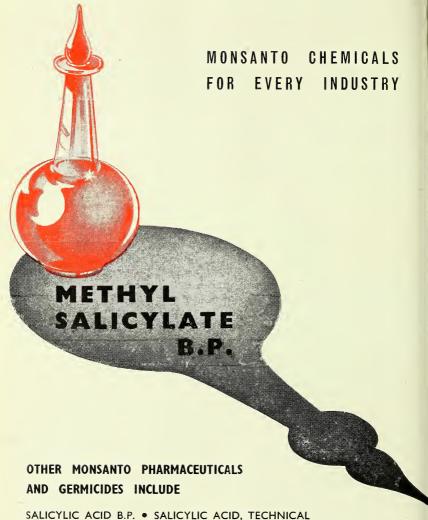
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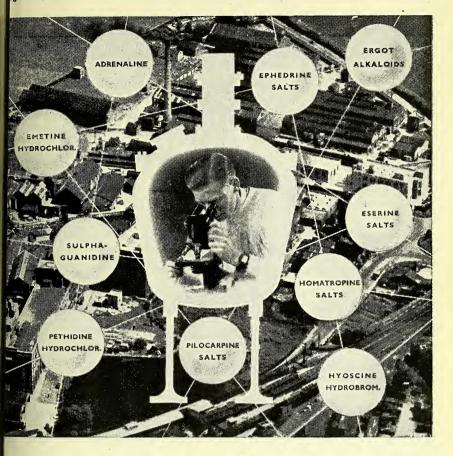
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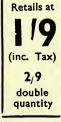
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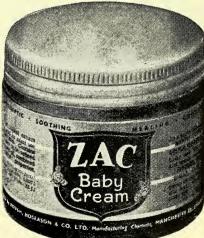
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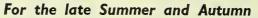
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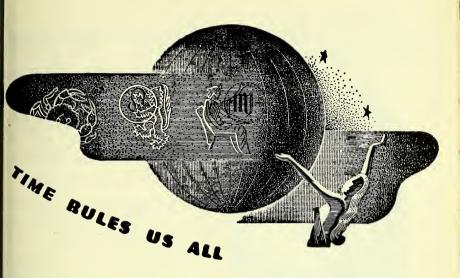
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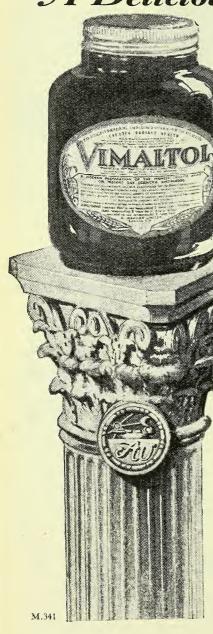
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Antexema	1/7	11/6	3/10
	3/3	27/-	9/-
A	6/3	45/-	15/-
Antexema Granules	1/7	12/-	4/-
Chameleon Oil (for Human use)	1/7	11/6	3/10
	3/9	27/-	9/-
Chameleon Oil (Veterinary)	2/6	16/-	5/4
	5/5	34/-	11/4
Potter's Asthma Remedy	2/5	18/-	6/-
Potter's Asthma Cigarettes	2/5	18/-	6/-
Potter's Asthma Smoking Mixture	$1/2\frac{1}{2}$	8/6	2/10
Potter's Catarrh Pastilles	1/9	11/-	3/8
Potter's Stramonium Cigarettes	1/10	12/-	4/-
Kasbah Kidney Remedy	1/41/2	8/6	2/10
Thompson's Dandelion Coffee, 1-lb. tins	2/6	24/-	No Tax
Thompson's Dandelion Coffee, I-lb. tins	4/41/2	42/-	,,
Thompson's Dandelion Coffee Essence	1/-	9′/6	,,
Thompson's Dandelion Coffee Essence	1/61	14/6	,,
Thompson's Slippery Elm Food, I-lb. tins	2/6	23′/-	,,
Thompson's Slippery Elm Food, 2-lb. tins	4/6	42/-	,,
Thompson's Slippery Elm Food, Unmalted, I-lb, tins	2/6	23/-	,,
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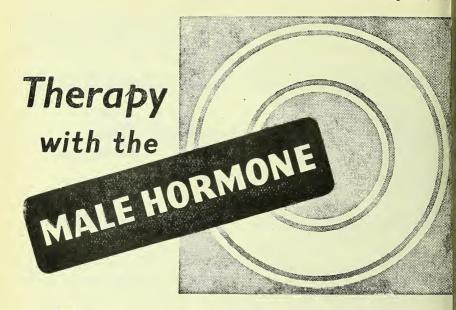
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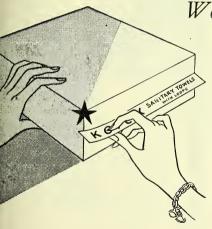
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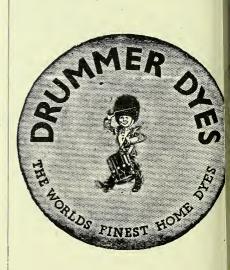
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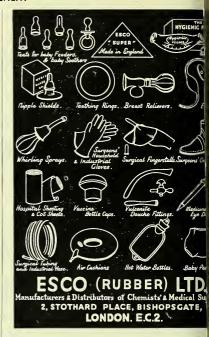
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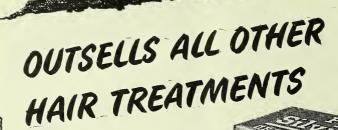
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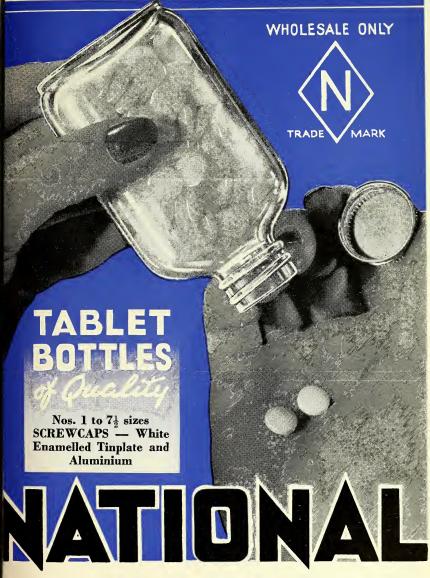
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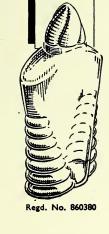
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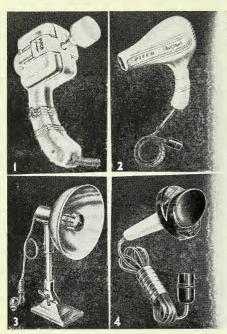
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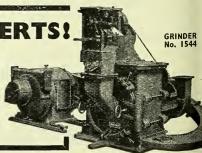
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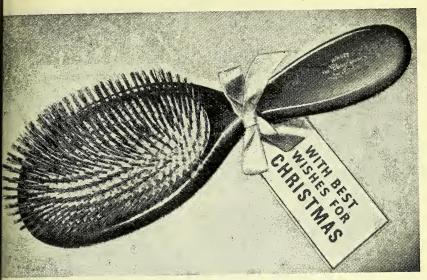
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HINDES CHRISTMAS BONUS SCHEME

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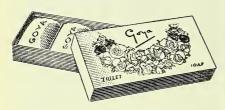
Every customer ordering now (for delivery October 1st to November 18th) one dozen of Hindes "Very" Brushes (Round, Oval, or Military), or one dozen "Hindelife" Oval Brushes, or one dozen "Tinglow" Body Friction Brushes will receive one extra of the line that is ordered free of charge, in addition to the usual generous trade terms.

Here is one of eight special offers made-

13 HINDES No. 7246 "HINDELIFE" Pure Bristle Rubber Cushion Brushes, Oval Shape, at 19/9 each, will sell for ... £12 16 Includes P.T. 1 dozen ... at 129/6 per dozen will cost ... 12 PROFIT (Exclusive of P.T. as above)

Order NOW from your usual wholesaler, or write for full particulars to HINDES LTD., P.O. BOX 62, BIRMINGHAM 5

It'll be a SOAP CHRISTMAS this year



Remember the Christmas gift trade in soap before rationing began . . . well it will be back again this year and Goya's 'quality' soap, loved for its exceptionally high perfume content, and packed in most attractive boxes of three tablets will be the soap gift the public will be wanting.

A box of three tablets makes an ideal low priced gift and will solve countless gift problems this year. Full colour and black and white advertisements will start the ball rolling-make sure that you have ample stocks to meet the demand.

Let us know your requirements NOW. Get your soap early-and be sure of a lot of profit on a lot of soap.

TRADE PRICE

RETAIL PRICE

Tablets 12/- per dozen Boxes 36/- per dozen 5/- per box.

1/8 single tablet



Phones: Liberty 2283-4-5-6 and Liberty 420



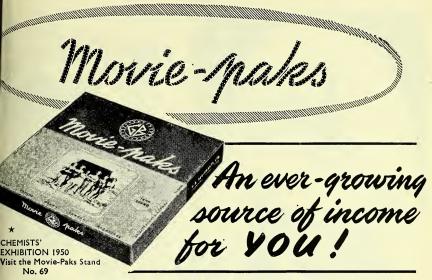
-to meet the big demand

Softex is available in cartons containing 72 standard size rolls, or 72 cardboard packet-holding approximately 250 interleaved sheets Retail price—Rolls 1/3d., Interleaved Packets 9d., Super-Softex 1/6d.

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MOVIE-PAKS are short films specially made for home movie enthusiasts. Every type of film is presented—Cartoons, Travel, Thrillers, Westerns etc.—and every film is attractively colour-cartoned according to type, for easy reference. MOVIE-PAKS come in 16mm. SOUND and 16mm. and 8mm. SILENT forms.

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All users of home movie projectors—there is an ever-growing army of tens of thousands—are actual or potential customers. MOVIE-PAKS enable home movie fans to build a personal library of visual entertainment. Already there are 85 titles, and new productions are added to the list regularly.

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Stockists of Movie-Paks are supplied with attractive showcards and other point-of-sale aids, and up-to-date advertising leaflets. In addition, MOVIE-PAKS are regularly advertised in National Magazines such as 'Punch' and in 'The Amateur Cine World', 'Film User', and many other publications read by home movie fans. And, most important, details of new MOVIE-PAKS are sent to all users of the huge G.B. Library, the largest 16mm, film distributors in the world.

HOW YOU CAN SELL MOVIE-PAKS

First step — send coupon below for full details of trade terms etc. Do it NOW — the MOVIE-PAKS season is just about to commence!

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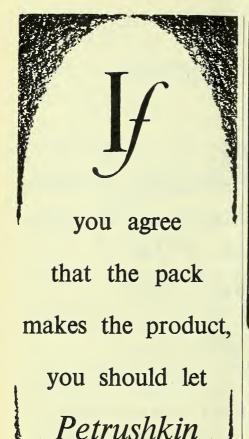


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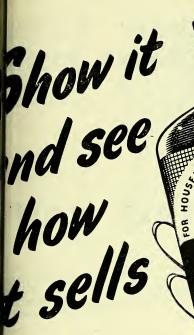
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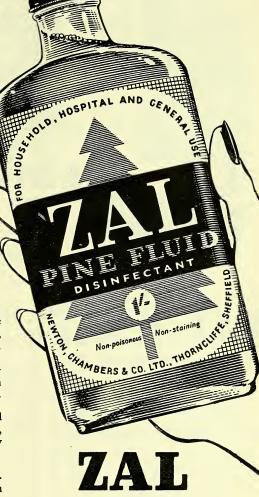
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In packing the sponge in a manner fitting a high grade article, Cresswells have put 'Reliance' sponges in a class right by themselves—and given them a right to a place on your counter, just where they please the eye and tempt the purse of your customers!

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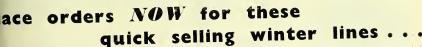
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Simpkins Antiseptic Fruit (flavoured) Pastilles

Summer sore throats are as sure to come as summer itself. Make certain that you are in a position to offer the public a sure and pleasant relief. Simpkins Antiseptic Fruit (flavoured)

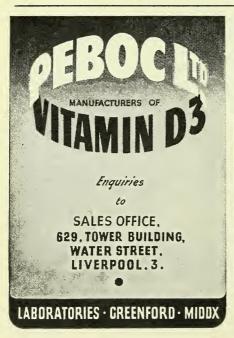
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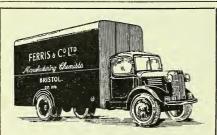
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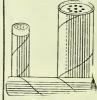
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